

The Commonwealth of Massachusetts  
Executive Office of Health and Human Services  
Department of Public Health  
William A. Hinton State Laboratory Institute  
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK  
GOVERNOR

TIMOTHY P. MURRAY  
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD  
SECRETARY

JOHN AUERBACH  
COMMISSIONER

01/26/2012

Larry Bates  
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]  
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan  
Chemist  
Drug Analysis Lab  
Jamaica Plain, MA. 02130  
(617) 983-6622

Khan, Annie (DPH)

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**From:** Khan, Annie (DPH)  
**Sent:** Thursday, January 12, 2012 12:12 PM  
**To:** Bates, Larry (SUF); Corbett, Kate (DPH)  
**Subject:** RE: Lab Notes and Summons BMC Docket Number [REDACTED]

Hi Larry,

Hope this email finds you well.

Lab #



Upon reviewing this case, the Lab#s may be incorrect.

At your convenience, could you please check if these are the correct Lab#s?

Sorry for the inconvenience.

Process of  
elimination

Thanks.

ASD

Annie  
Drug Analysis Lab  
617-983-6622 (work)  
617-983-6625 (fax)

---

**From:** Bates, Larry (SUF)  
**Sent:** Wednesday, January 11, 2012 2:58 PM  
**To:** Khan, Annie (DPH); Corbett, Kate (DPH)  
**Subject:** Lab Notes and Summons BMC Docket Number [REDACTED] case

Greetings Once More

Attached please find a summons for your appearance on the above given case at BMC for Feb 15.  
Request is also made for you forward a copy of lab notes for case number [REDACTED]  
and should you not be able to attend the court date, please notify me. Lastly, thank you for your assistance.

Larry Bates

## Curriculum Vitae

### Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry

Minor: Economics

#### **Experience:**

2003 – present

#### **Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory**

\*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

\*Writing of the Standard Operating Procedures (SOPs) and Protocols.

\*Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.

\*Maintenance and repairs of analytical instruments.

\*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

\*Qualified as an expert witness in Massachusetts Courts and U.S. District Court.

\*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

\*Appointed Assistant Analyst by Assistant Commissioner of Public Health.

\*Notary Public.

2001 – 2003

#### **QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control**

\*Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.

\*Method Development for creating new techniques for the QC Dept. and FDA.

\*Writing, revising and reviewing the Standard Operating Procedures (SOPs).

\*Trained and supervised new chemists and interns for the department.

\*Routine QC testing of products for the FDA.

\*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

\*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

\*Complete testing of chemicals for Vendor Validation Project for the FDA.

\*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### **Additional Courses:**

##### **Department of Justice – Forensics Professionals**

Introduction to Forensic Drug Chemistry

Perspectives in Expert Testimony

Chemical Spot Test and Mechanism for Illicit Drugs

Evidence Analysis

Forensic Mass Spectrometry

Ethics in Forensic Science

Forensic Science 101: An Introduction

Transition to Leadership

Fundamentals of Forensic Questioned Documents

Fundamentals of Forensic Toxicology

#### **Additional Trainings:**

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations.

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectrum One.

Ultraviolet–Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

#### **Associations:**

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

# Curriculum Vitae

Kate A. Corbett

## Education

### **Bachelor of Science Degree, CHEMISTRY May 2003**

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

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## Employment

### **Chemist II State Laboratory Institute (March 2008-Present)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

### **Chemist I State Laboratory Institute (2005-March 2008)**

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

### **Research Associate (September 2003 – August 2005)**

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

### **Intern (March 2003 – August 2003)**

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



## **DRUG RECEIPT**

CC #	
BOOK #	
PAGE #	

**DESTRUCTION #** \_\_\_\_\_

District/Unit D-4 DCU

Name & Rank of Arresting Officer Sgt. Det. Keenan ID# 10652

To be completed by ECU personnel only

Name and Rank of Submitting Officer Super Wmce ID# 110649

Received by \_\_\_\_\_ Date \_\_\_\_\_ 9-3-11

ECU Control #

No. [REDACTED]

Date Analyzed: 2/10/11

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 2 Cont: pb

Date Rec'd: 02/03/2011

No. Analyzed: 1

Gross Wt.: 4.36

Net Weight: 0.16

# Tests: 6 AS  
• 20AC

Prelim: cocaine (P)

Findings:

Cocaine

No. [REDACTED]

Date Analyzed: 03-26-11

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount: 40.0

Subst: TAB

No. Cont: 1 Cont: pb

Date Rec'd: 02/03/2011

No. Analyzed:

Gross Wt.: 20.29

Net Weight:

# Tests: 14 TL  
• 20AC

Prelim: E

Findings: gabapentin

No. [REDACTED]

Date Analyzed: 2/16/11

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 46 Cont: gb

Date Rec'd: 02/03/2011

No. Analyzed: 5

Gross Wt.: 57.89

Net Weight: 0.86

# Tests: 25 AS  
• 10KAC

Prelim: Heroin

Findings:

Heroin

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST A-29

No. of samples tested: \_\_\_\_\_ Evidence Wt: \_\_\_\_\_

PHYSICAL DESCRIPTION: Gross Wt ( 2 ): 0.3721

OFF white chunky substance  
in 2 pbs

Gross Wt ( 1 ): 0.2126

Pkg. Wt: \_\_\_\_\_

Net Wt: 0.1640

## PRELIMINARY TESTS

### Spot Tests

Cobalt Thiocyanate ( → ) +  
Marquis —  
Froehde's —  
Mecke's —

### Microcrystalline Tests

Gold Chloride ↗  
TLTA ( → ) +

### OTHER TESTS

\_\_\_\_\_

## PRELIMINARY TEST RESULTS

RESULTS COCAINE

DATE 2-8-11

## GC/MS CONFIRMATORY TEST

RESULTS COCAINE

MS OPERATOR KAC

DATE 2-10-11

# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED]

AGENCY BostonANALYST AS

No. of samples tested: \_\_\_\_\_

Evidence Wt. \_\_\_\_\_

**PHYSICAL DESCRIPTION:**

Gross Wt ( ): \_\_\_\_\_

W/O white oval tablet  
in 1PQ

Gross Wt ( ): \_\_\_\_\_

Pkg. Wt: \_\_\_\_\_

Net Wt: 51.2288

84444

800

**PRELIMINARY TESTS****Spot Tests**

Cobalt Thiocyanate ( )

Marquis

Froehde's

Mecke's

**Microcrystalline Tests**

Gold Chloride

TLTA ( )

**OTHER TESTS**

Minerals 9 (P)

**PRELIMINARY TEST RESULTS**RESULTS CyberoninDATE 3-26-11**GC/MS CONFIRMATORY TEST**

RESULTS \_\_\_\_\_

MS OPERATOR \_\_\_\_\_

DATE \_\_\_\_\_

## Drug Information

**DRUG NAME:** GABAPENTIN

**INGREDIENTS:** GABAPENTIN -- 800 MG

**Color:** White

**Shape:** Oval

**Imprint:** 4444 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , Hourglass 4444 800 The tablet is debossed with a hourglass logo and 4444 on one side and 800 on the reverse side. , 800

**Form:** Oral Tablet

**Available-Container-Size:** Bottle of 100 , Bottle of 500 , Strip of 100 , Bottle of 1000

**AAPCC Code:** 077730 - Other Types of Anticonvulsant (Excluding Barbiturates)

**NDC:** 0093-4444-01

0093-4444-05

0172-4444-60

0172-4444-70

0172-4444-10

**Excipients:** Lactose  
(Monohydrate) ; Cellulose,  
Microcrystalline ; Polyethylene Glycol

**Regulatory Status:** RX

**Availability:** United States

**Product ID:** 6738350

**Contact:** Teva Pharmaceuticals

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# DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ADJ

No. of samples tested: 5 Evidence Wt.

PHYSICAL DESCRIPTION: Gross Wt (4S): 9.7000

Brown powdered substance  
in 46 ggs

Gross Wt (5): 1.0902

Pkg. Wt:

Net Wt:

1 gg empty → not weighed.

## PRELIMINARY TESTS

### Spot Tests

Cobalt

Thiocyanate (+)

Marquis +

Froehde's +

Mecke's +

### Microcrystalline Tests

Gold

Chloride

TLTA (-)

## OTHER TESTS

SGC +

## PRELIMINARY TEST RESULTS

RESULTS Heroin

DATE 2-08-11

## GC/MS CONFIRMATORY TEST

RESULTS Heroin

MS  
OPERATOR ICAC

DATE 2-16-11

Sample #: [REDACTED]

# samples tested: 5

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.2187	0.1957	0.0180	26			
2	0.2163	0.2007	0.0136	27			
3	0.2164	0.1989	0.0175	28			
4	0.2311	0.2021	0.0290	29			
5	0.2227	0.2063	0.0164	30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

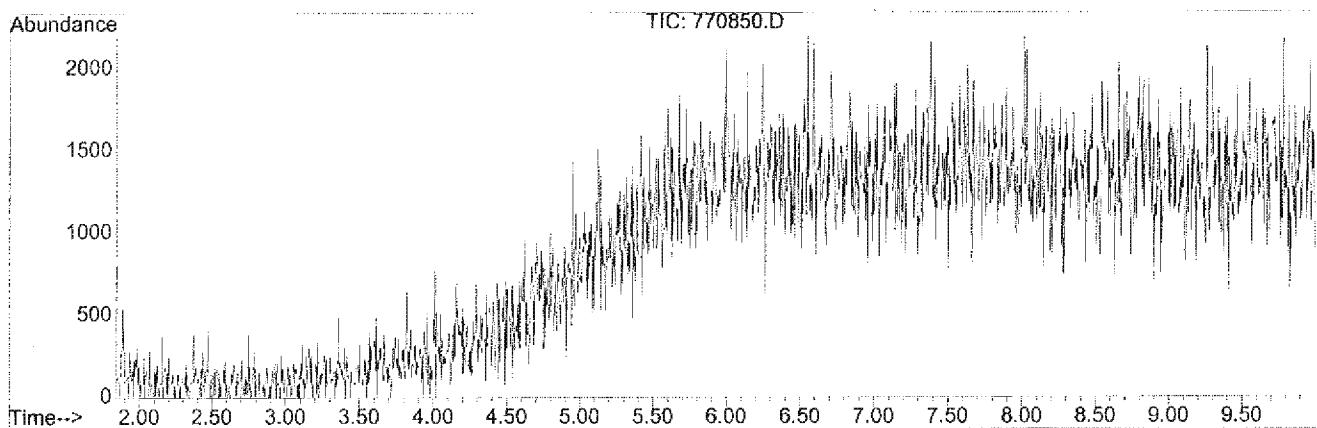
Calculations:

$$\text{Est Net wt} = 0.0945 / 5 = 0.0189(46)$$
$$= 0.8694$$

VKHC  
1/25/12

## Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770850.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 21:22  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

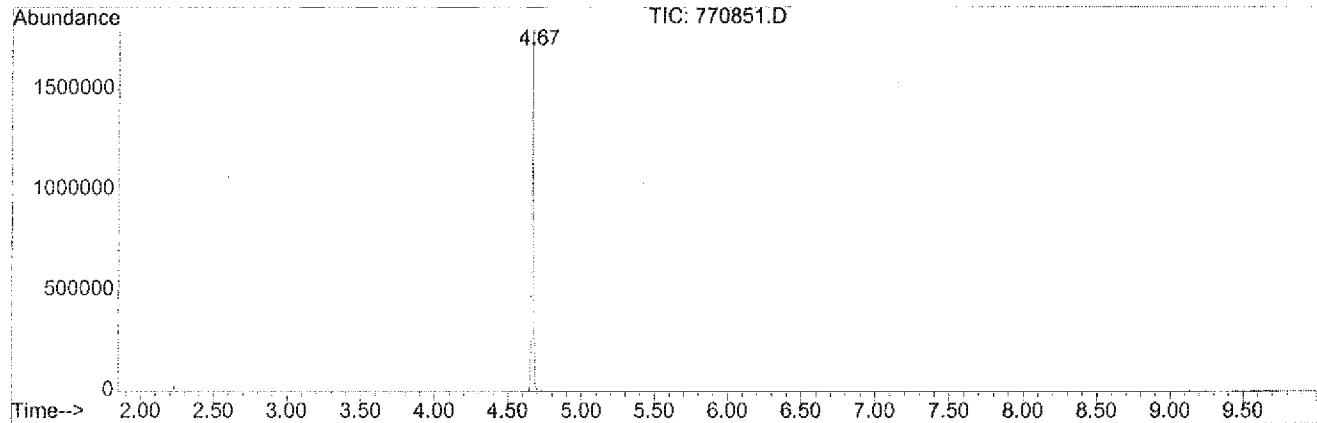
# Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770851.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 21:35  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
4.666	1636731	100.00	100.00

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# Area Percent / Library Search Report

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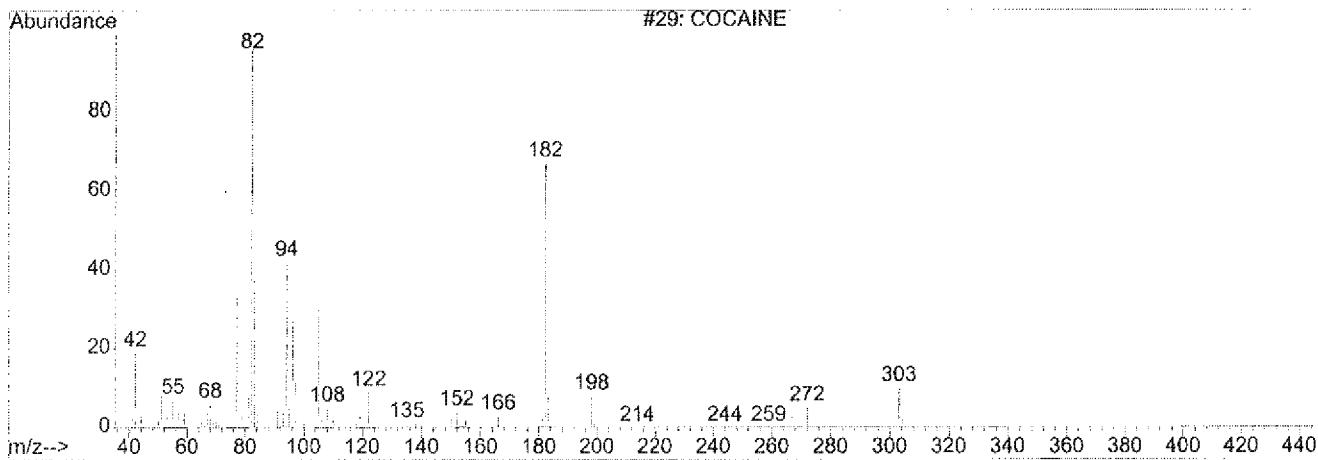
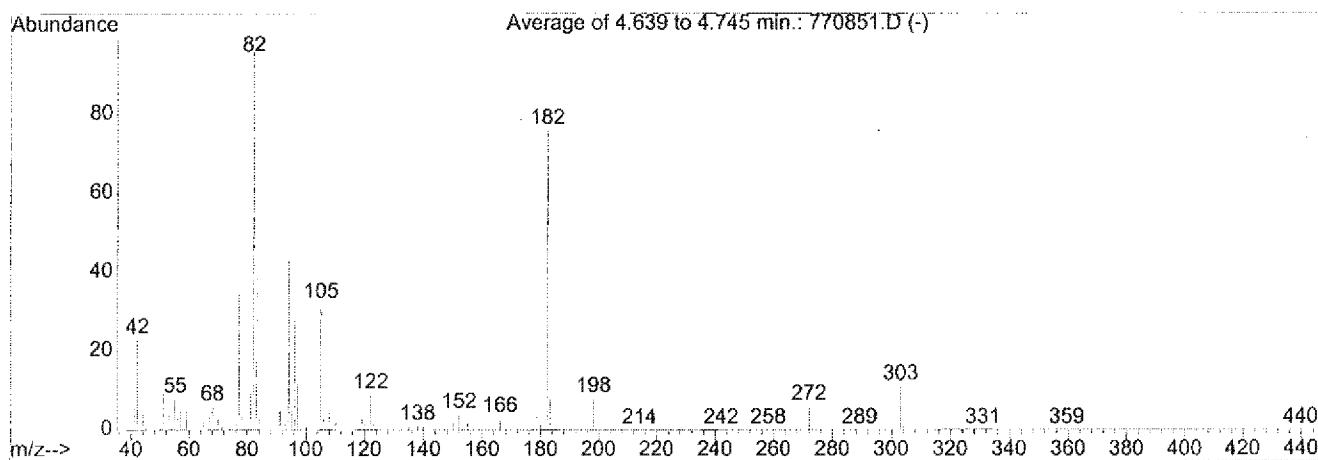
**Information from Data File:**

File Name : D:\SYSTEM4\02\_09\_11\770851.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 21:35  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS  
Integrator : RTE

---

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



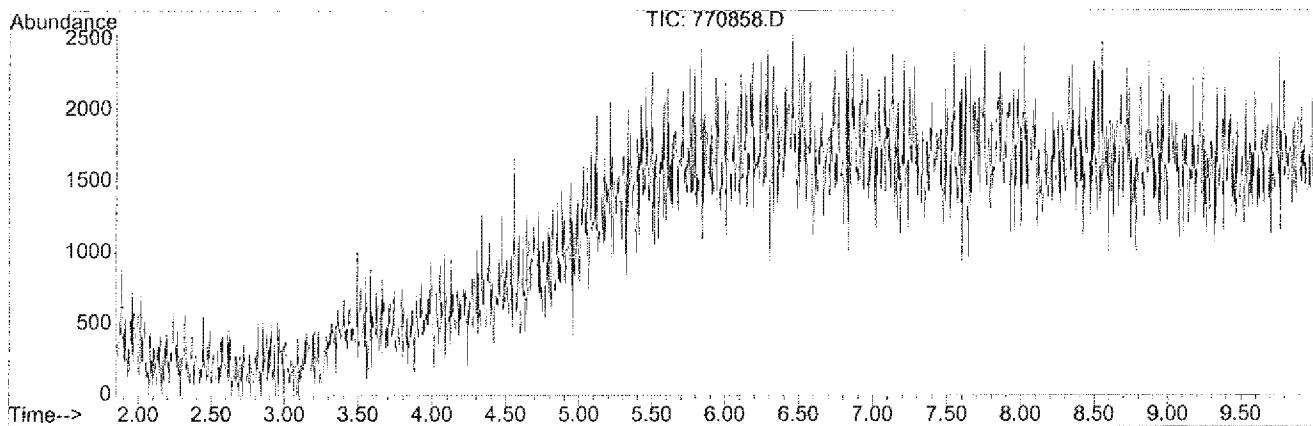
# Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770858.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:12  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

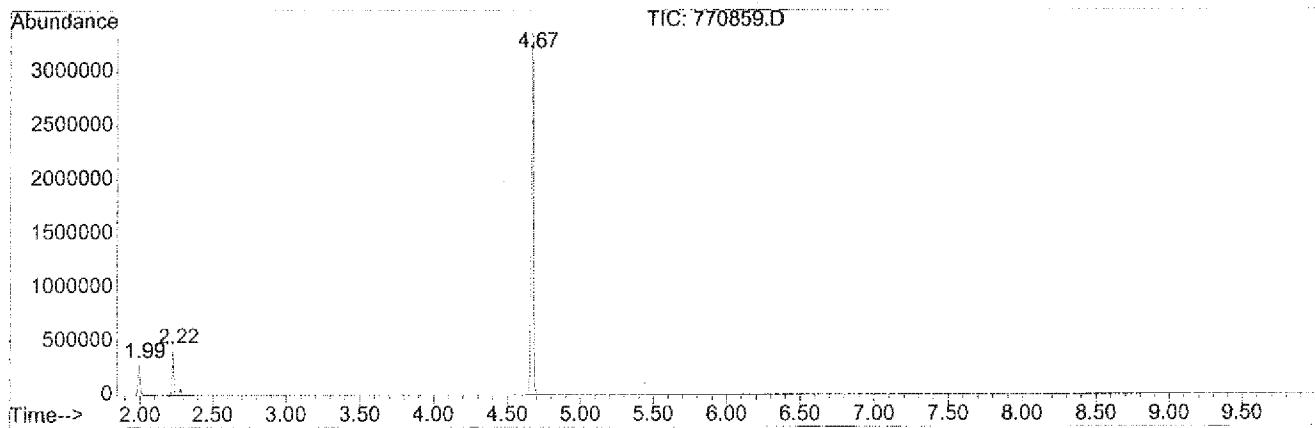
# Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770859.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:26  
Sample Name : [REDACTED]  
Submitted by : ASD  
Vial Number : 59  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
1.992	295989	6.99	8.31
2.225	372895	8.81	10.46
4.668	3563840	84.20	100.00

---

# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\02\_09\_11\770859.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 59  
AcquisitionMeth: DRUGS  
Integrator : RTE

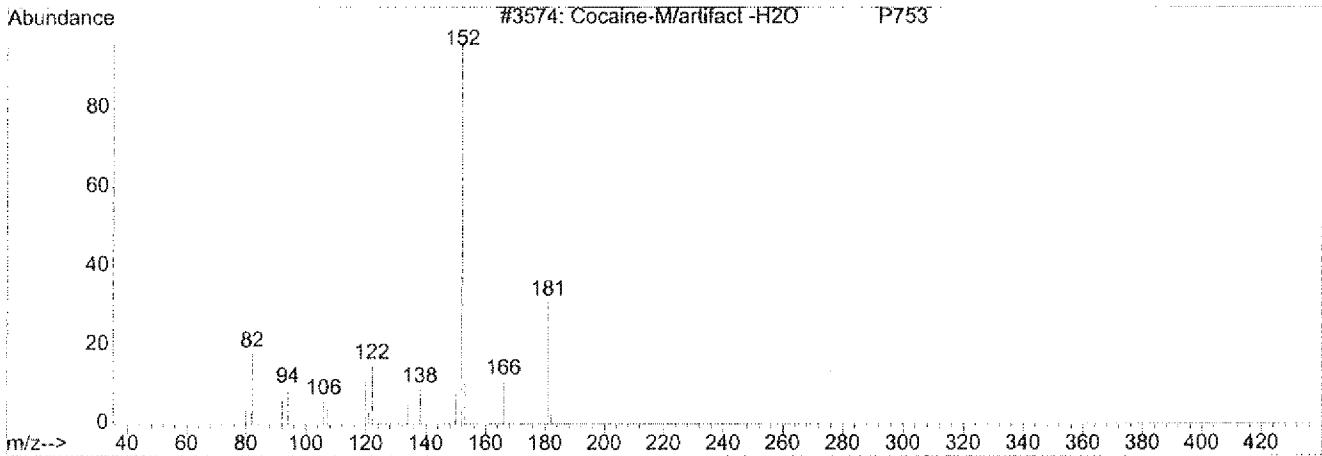
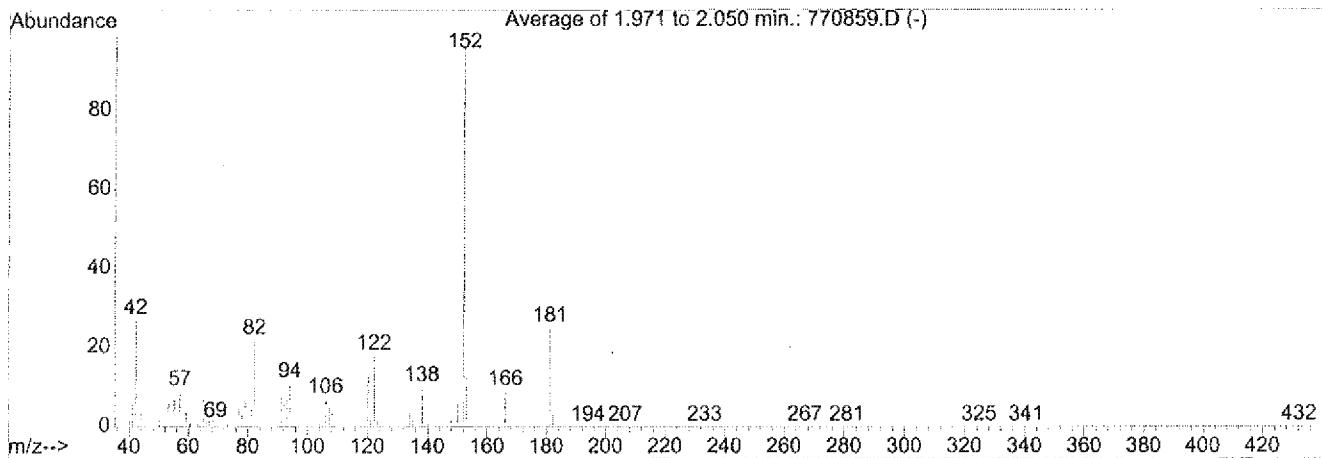
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

---

PK#	RT	Library/ID	CAS#	Qual
1	1.99	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M/artifact -H2O	000000-00-0	96
		MDA-M (desmethylenyl-methyl-) ME	@ 000000-00-0	37
		Metipranolol-M/artifact AC	000000-00-0	32

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# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\02\_09\_11\770859.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 59  
AcquisitionMeth: DRUGS  
Integrator : RTE

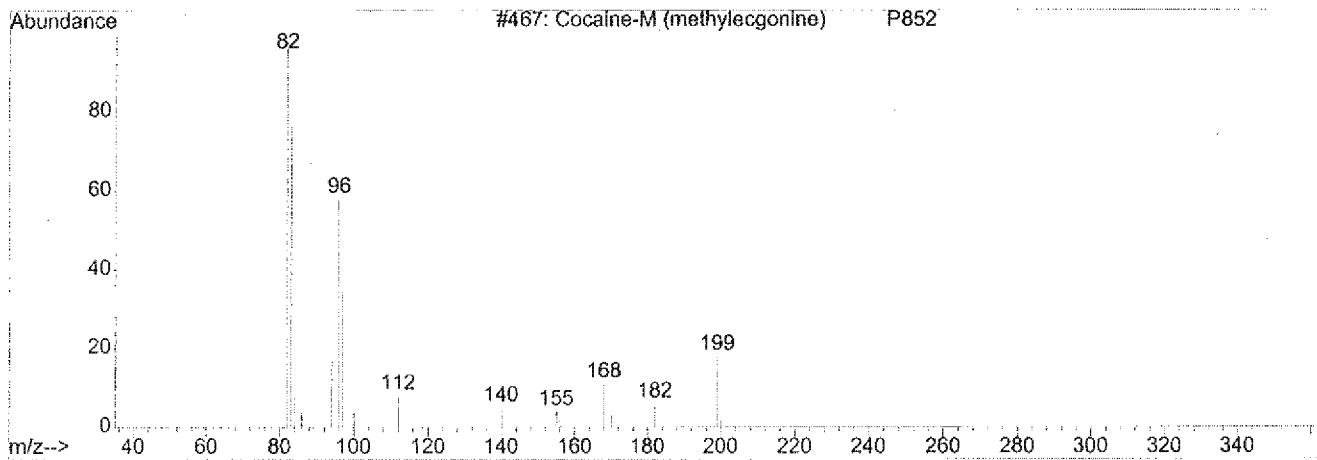
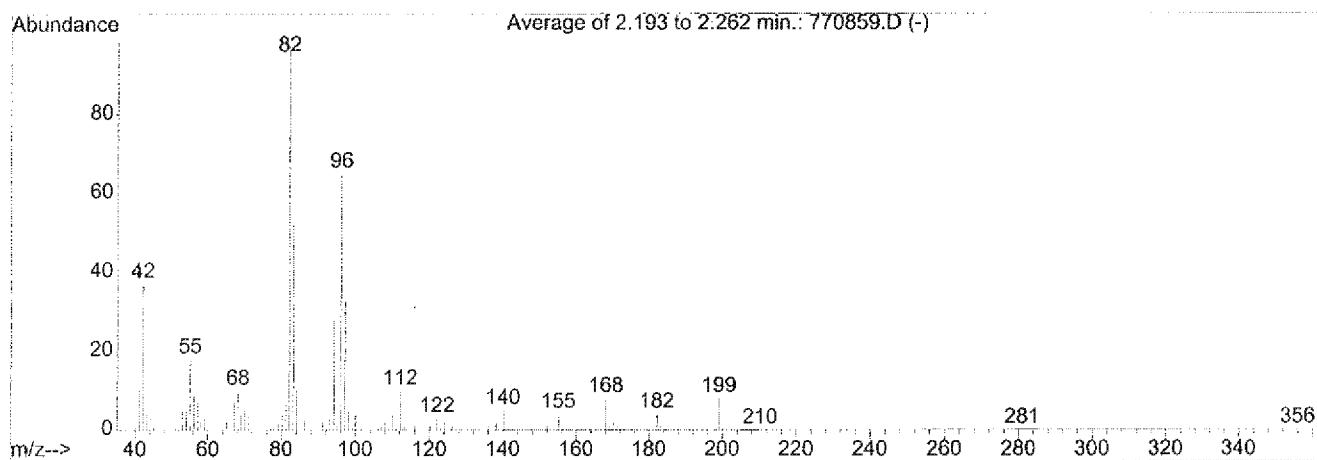
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

---

PK#	RT	Library/ID	CAS#	Qual
2	2.22	C:\DATABASE\PMW_TOX2.L		
		Cocaine-M (methylecgonine)	007143-09-1	96
		Cocaine	000050-36-2	38
		Cocaine-M (methylecgonine) AC	000000-00-0	9

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# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\02\_09\_11\770859.D  
Operator : SLD  
Date Acquired : 9 Feb 2011 23:26  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 59  
AcquisitionMeth: DRUGS  
Integrator : RTE

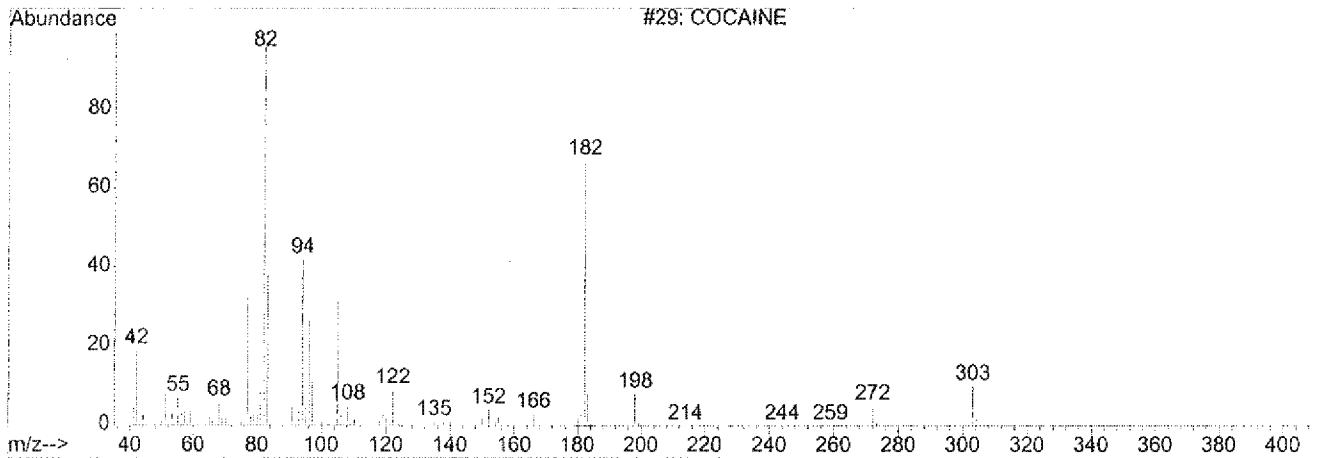
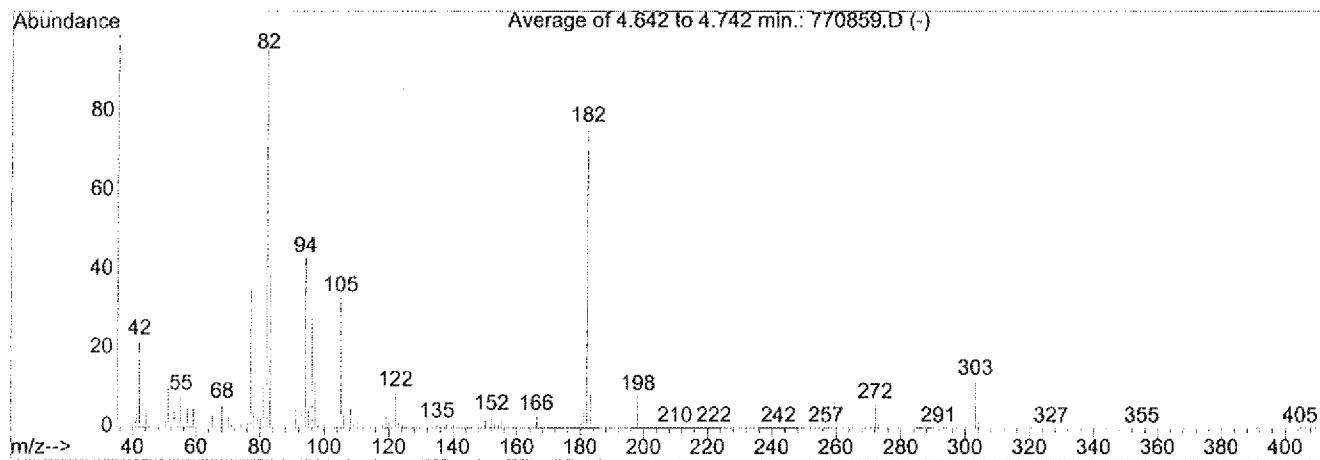
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Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

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PK#	RT	Library/ID	CAS#	Qual
3	4.67	C:\DATABASE\SLI.L COCAINE	000050-36-2	99

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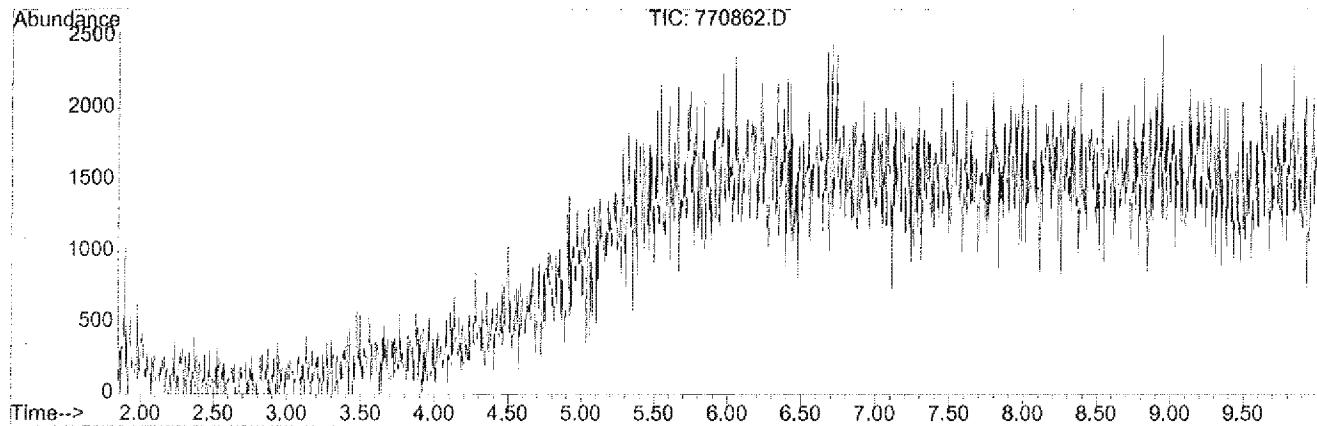
# Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770862.D  
Operator : SLD  
Date Acquired : 10 Feb 2011 00:07  
Sample Name : BLANK  
Submitted by :  
Vial Number : 2  
AcquisitionMeth: DRUGS  
Integrator : RTE

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Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

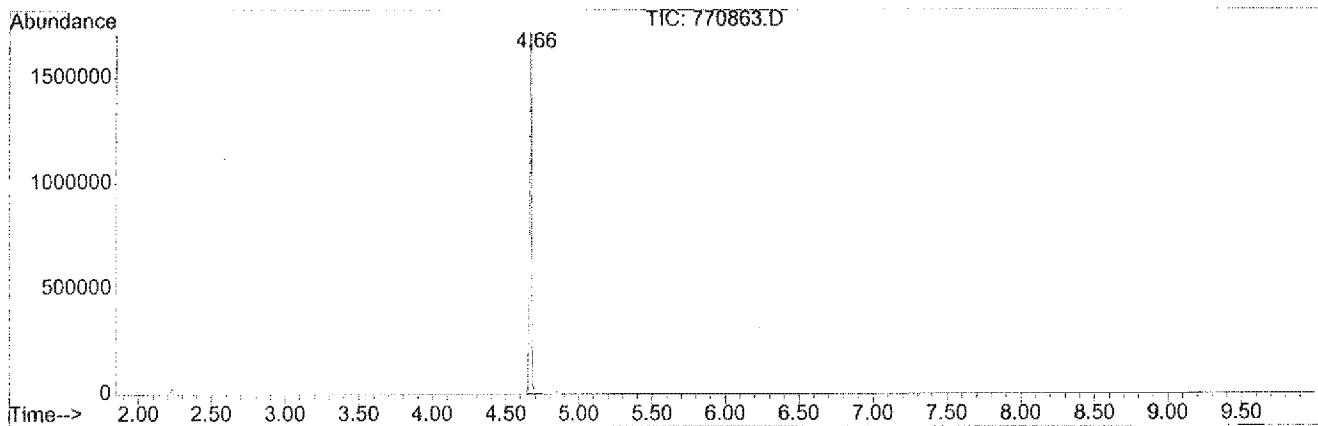
# Area Percent / Library Search Report

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Information from Data File:

File Name : D:\SYSTEM4\02\_09\_11\770863.D  
Operator : SLD  
Date Acquired : 10 Feb 2011 00:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS  
Integrator : RTE

---



Ret. Time	Area	Area %	Ratio %
4.663	1728398	100.00	100.00

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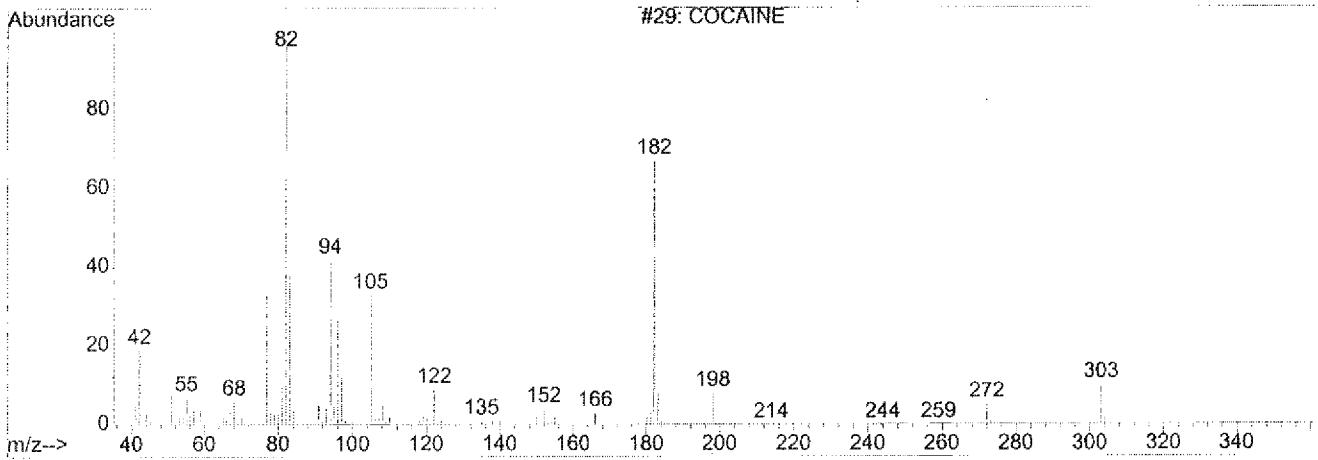
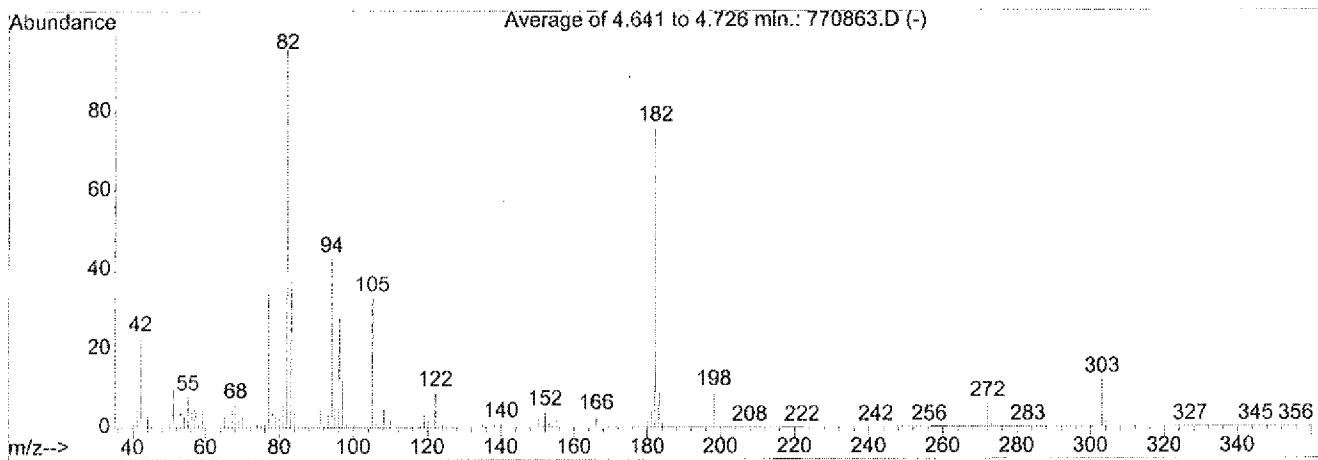
# Area Percent / Library Search Report

**Information from Data File:**

File Name : D:\SYSTEM4\02\_09\_11\770863.D  
Operator : SLD  
Date Acquired : 10 Feb 2011 00:21  
Sample Name : COCAINE STD  
Submitted by :  
Vial Number : 51  
AcquisitionMeth: DRUGS  
Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90  
C:\DATABASE\PMW\_TOX2.L Minimum Quality: 90  
C:\DATABASE\NIST98.L

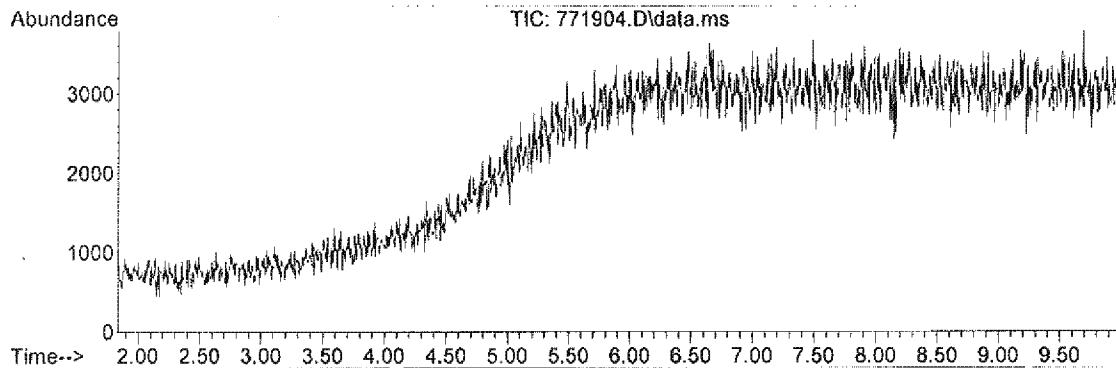
PK#	RT	Library/ID	CAS#	Qual
1	4.66	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



✓KAC  
1/25/12

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771904.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:25  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



---

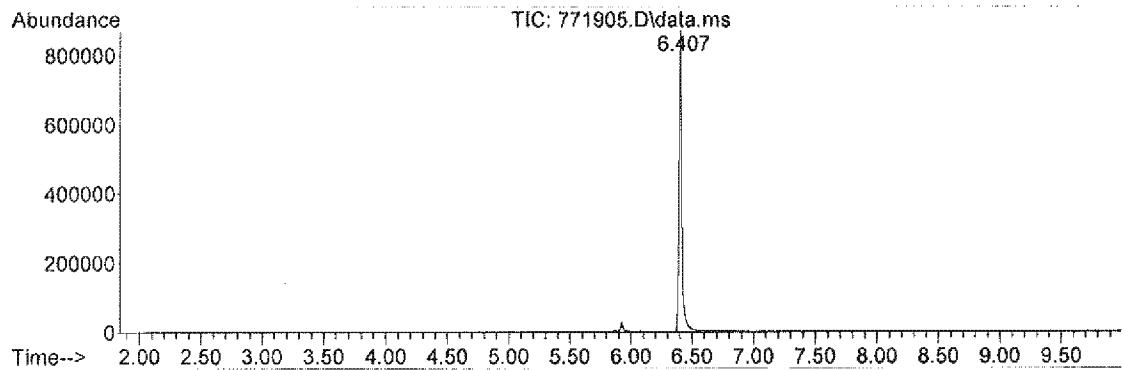
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771905.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:38  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



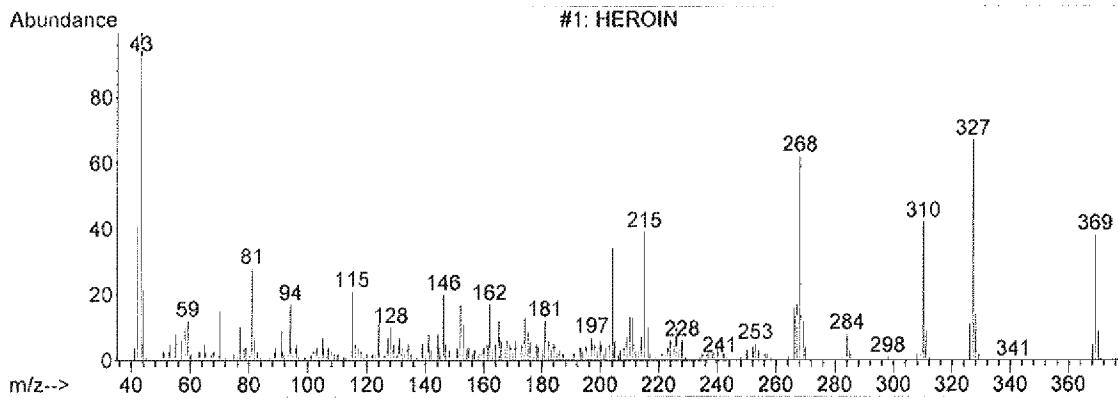
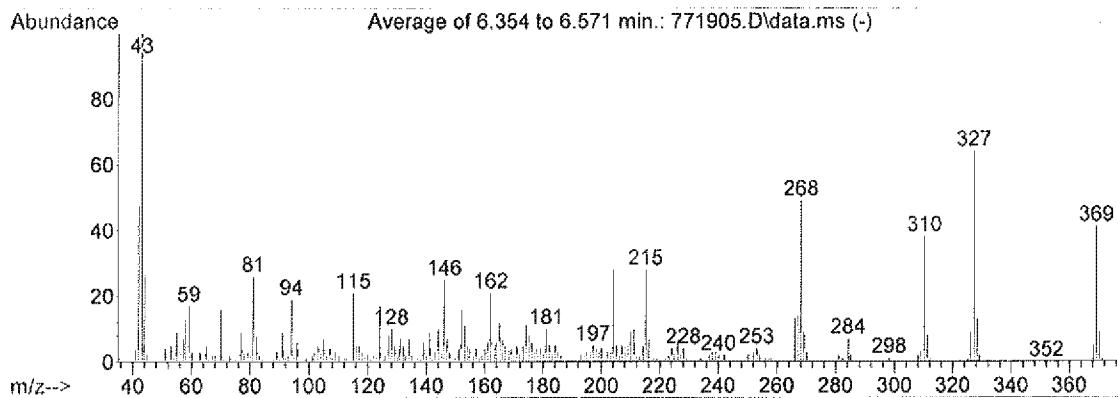
Ret. Time	Area	Area %	Ratio %
6.407	1376028	100.00	100.00

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771905.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:38  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 5  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99

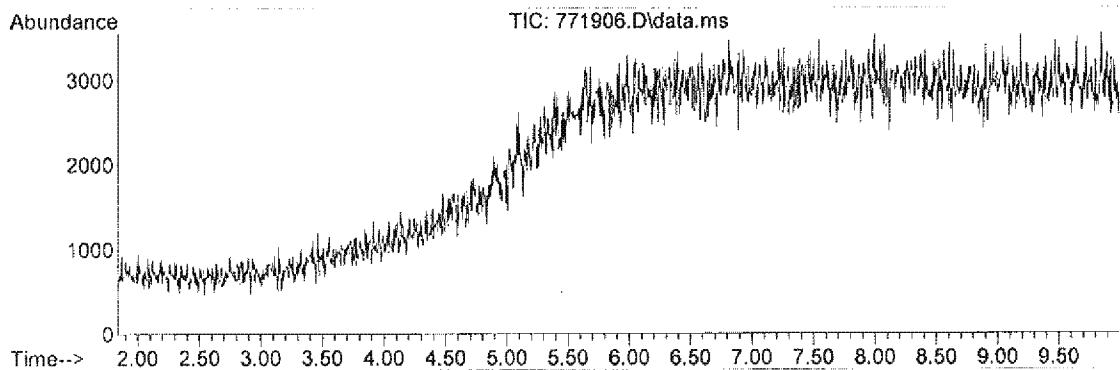


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Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771906.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 9:51  
Sample Name : BLANK  
Submitted by : ASD  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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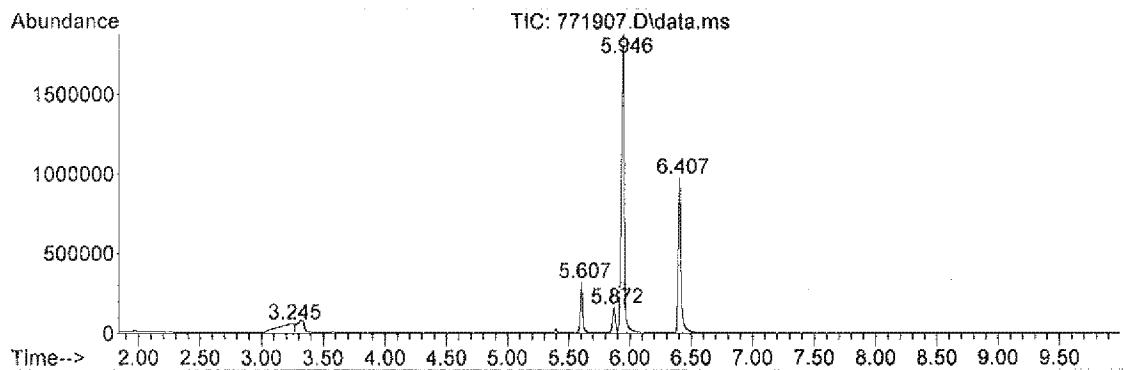
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



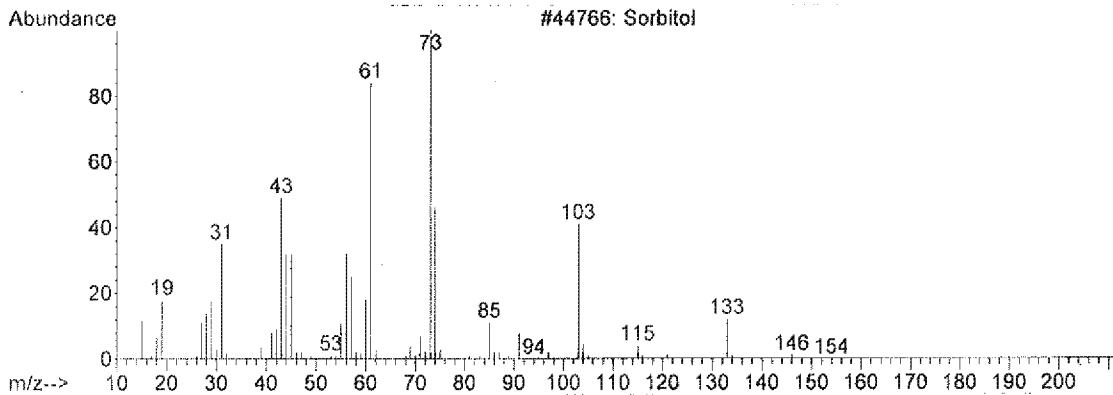
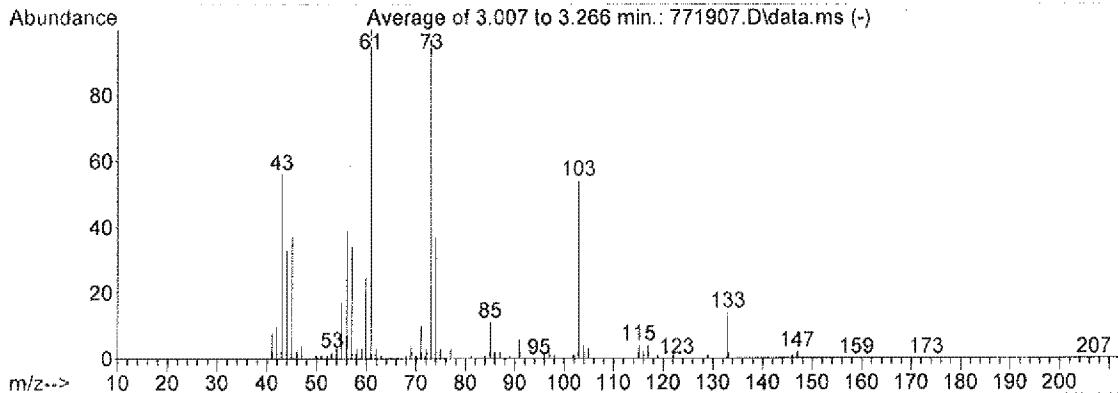
Ret. Time	Area	Area %	Ratio %
3.245	512102	8.71	16.45
5.607	440354	7.49	14.15
5.872	247462	4.21	7.95
5.946	3112744	52.91	100.00
6.407	1570135	26.69	50.44

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.25	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		Sorbitol	000050-70-4	80

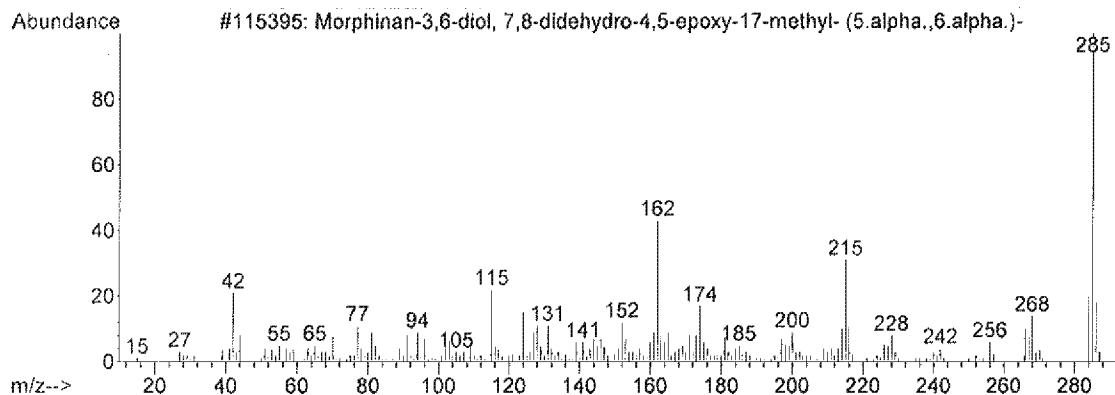
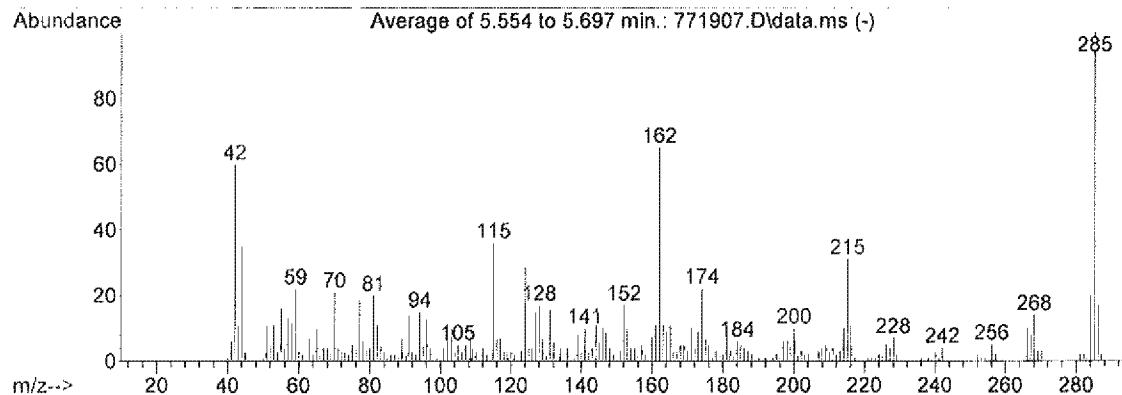


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

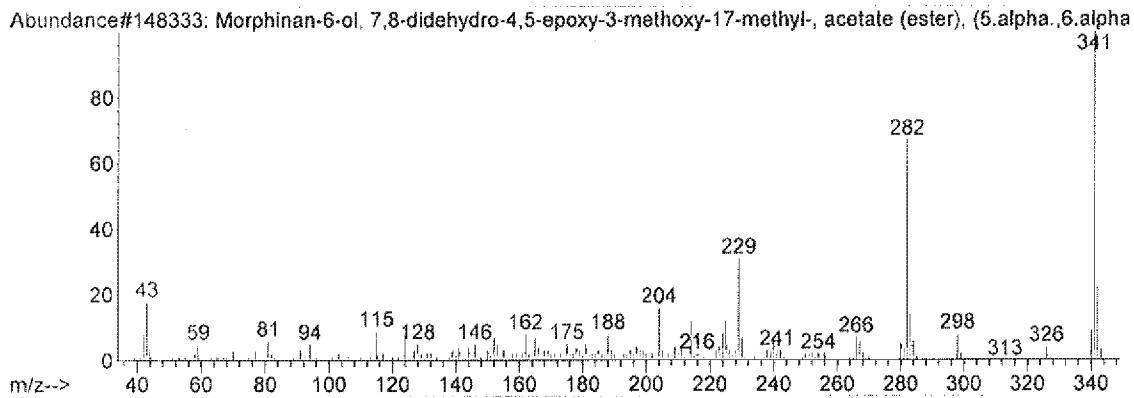
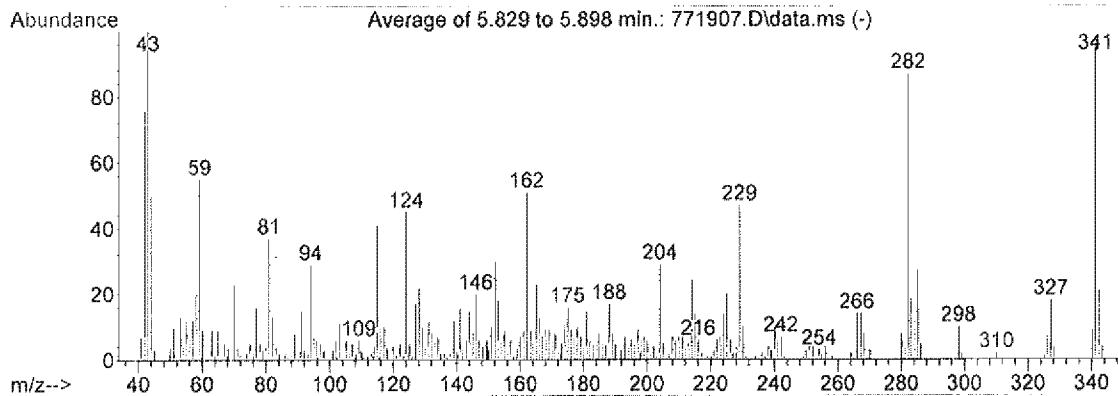


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	97
		Morphin, 3-acetyl-	1000153-00-1	92

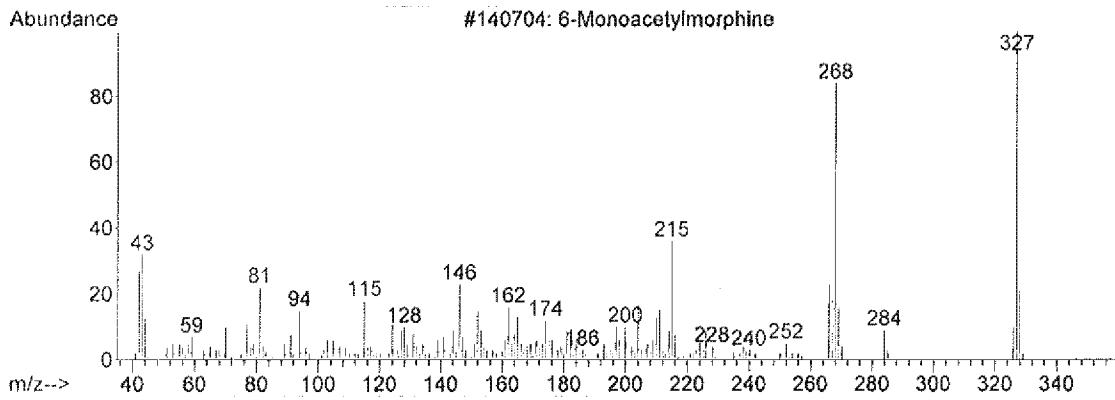
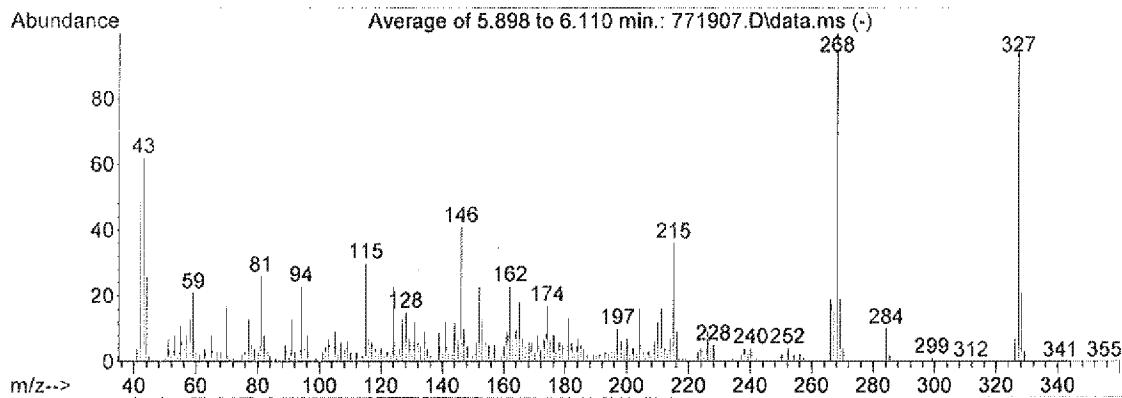


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

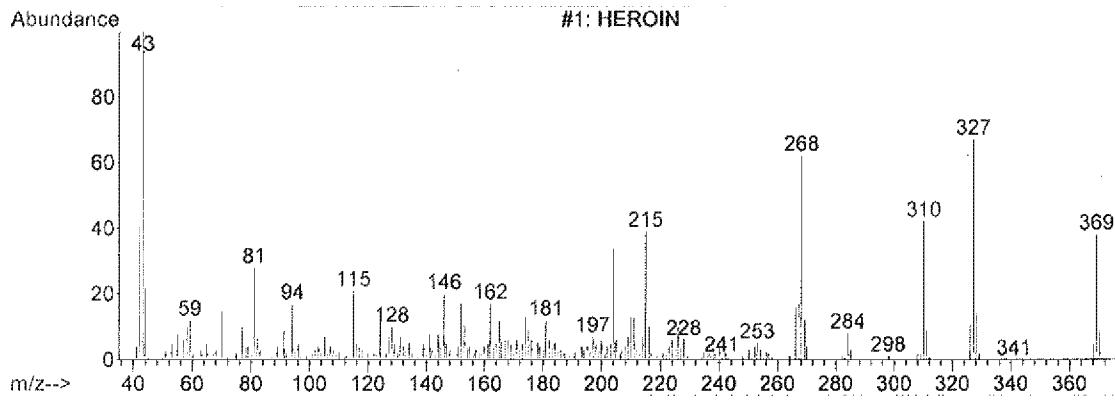
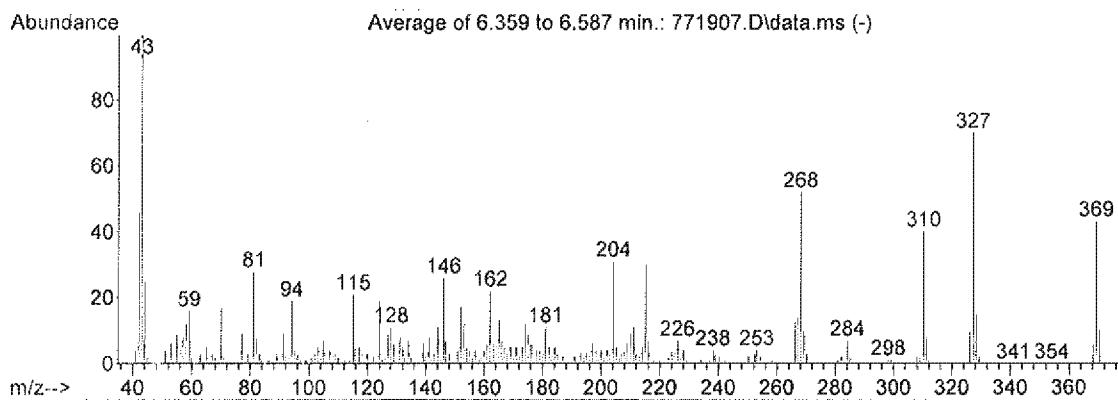


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771907.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:03  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 7  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

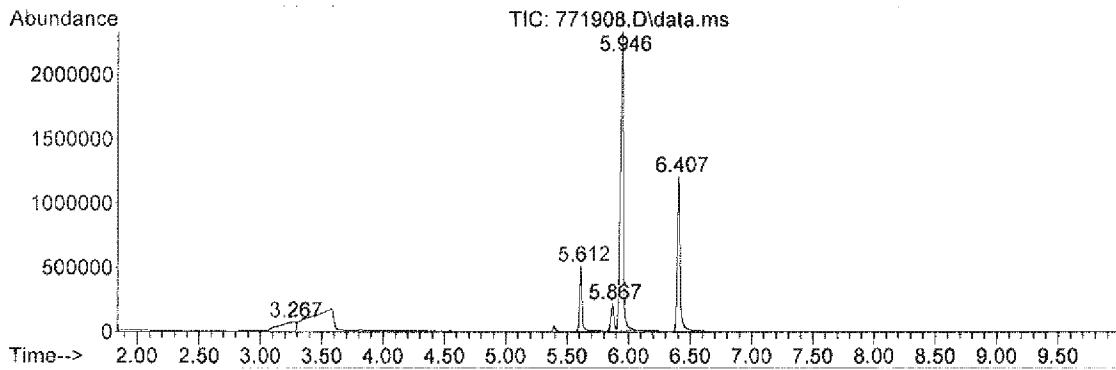
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L HEROIN	000561-27-3	99



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



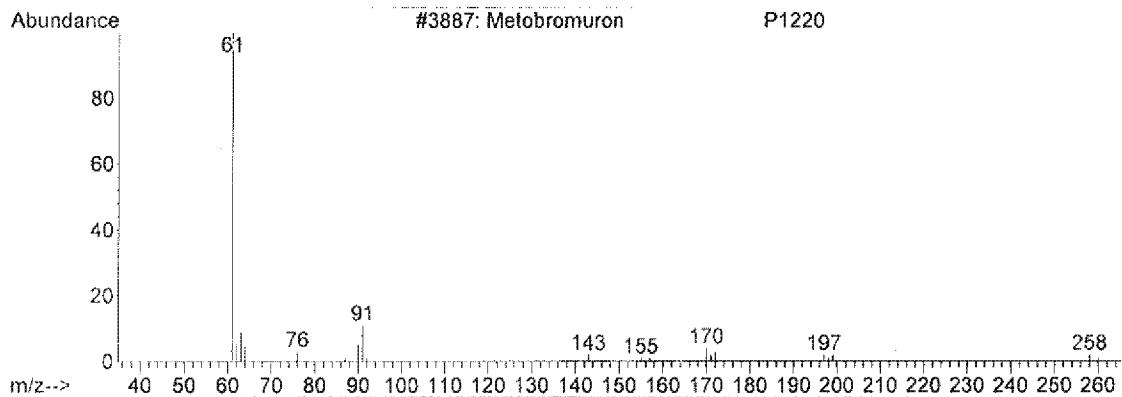
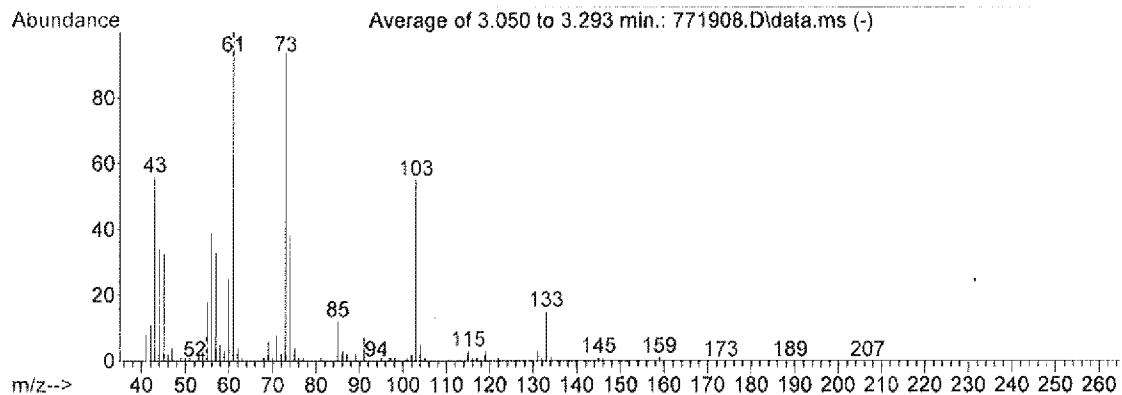
Ret. Time	Area	Area %	Ratio %
3.267	629037	8.12	15.08
5.612	699390	9.03	16.76
5.867	334629	4.32	8.02
5.946	4172296	53.88	100.00
6.407	1908470	24.65	45.74

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.27	C:\Database\PMW_TOX2.L		
		Metobromuron	003060-89-7	4
		Myristic acid	000544-63-8	2
		Monolinuron	001746-81-2	2

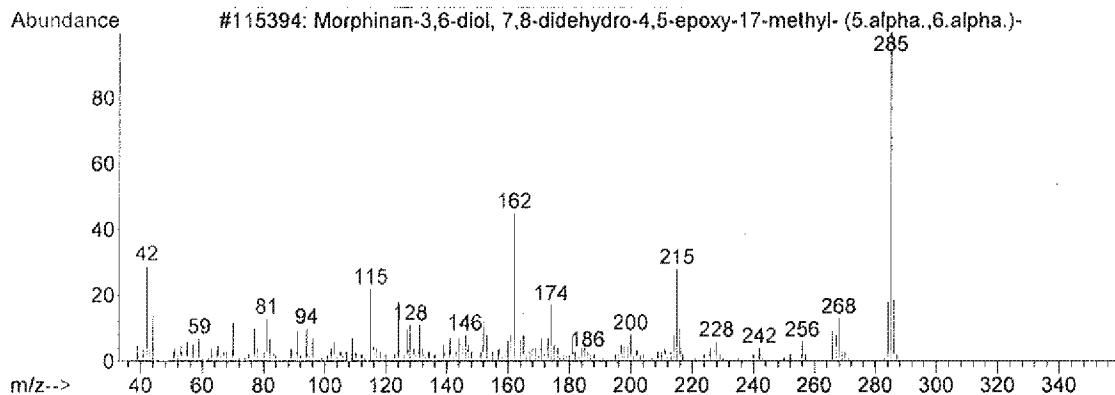
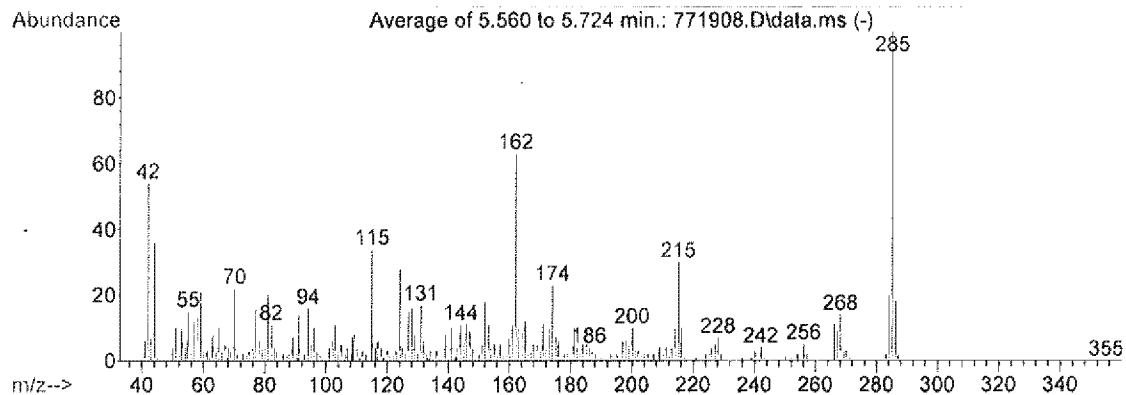


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

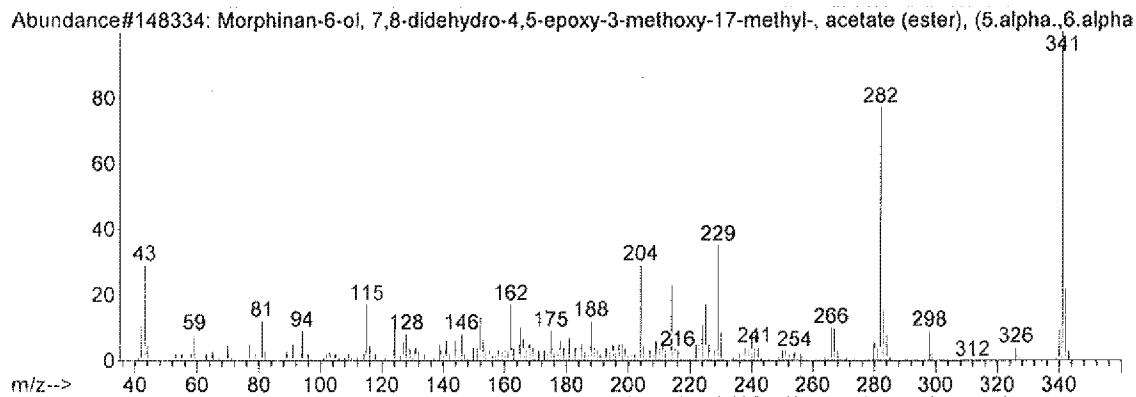
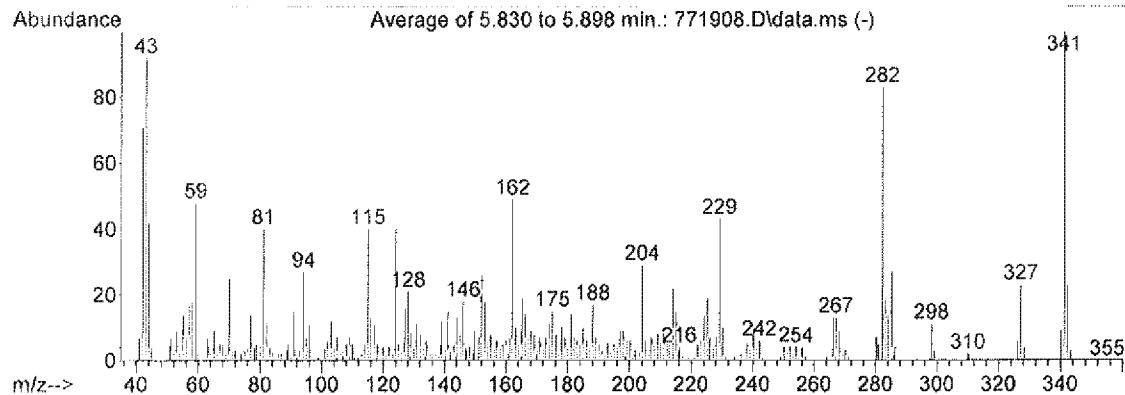


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	98

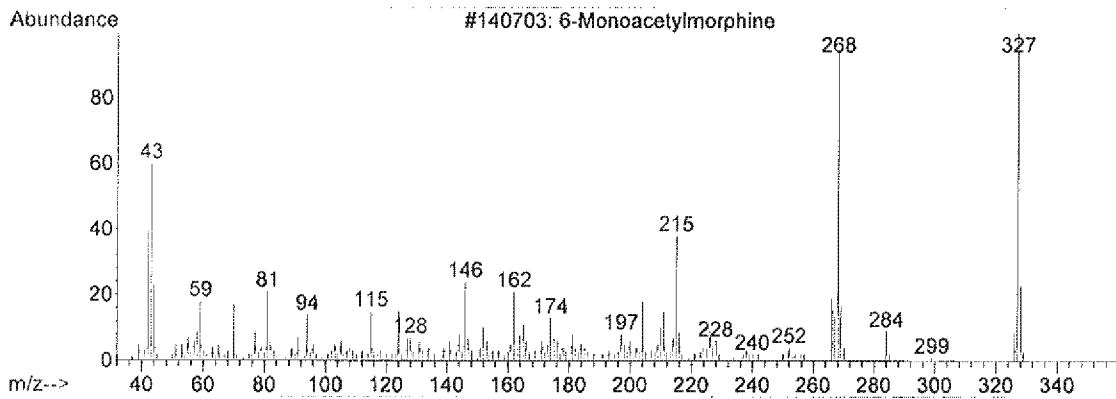
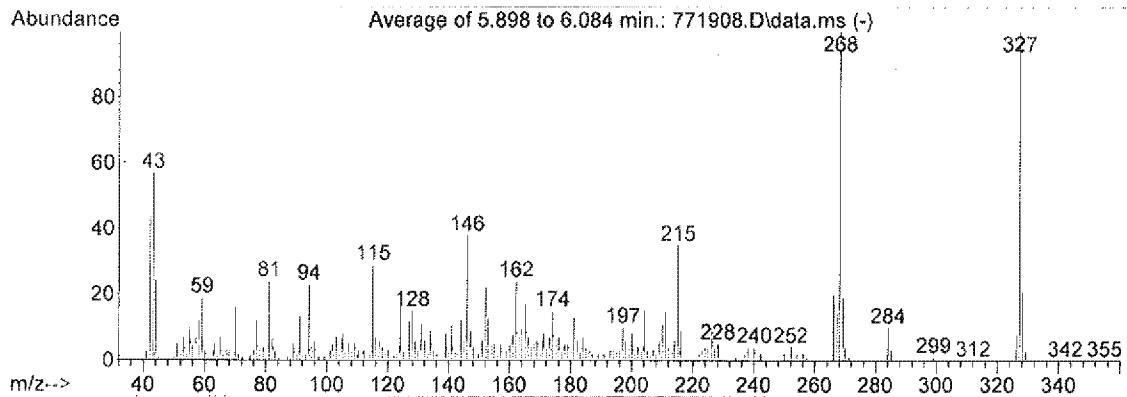


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

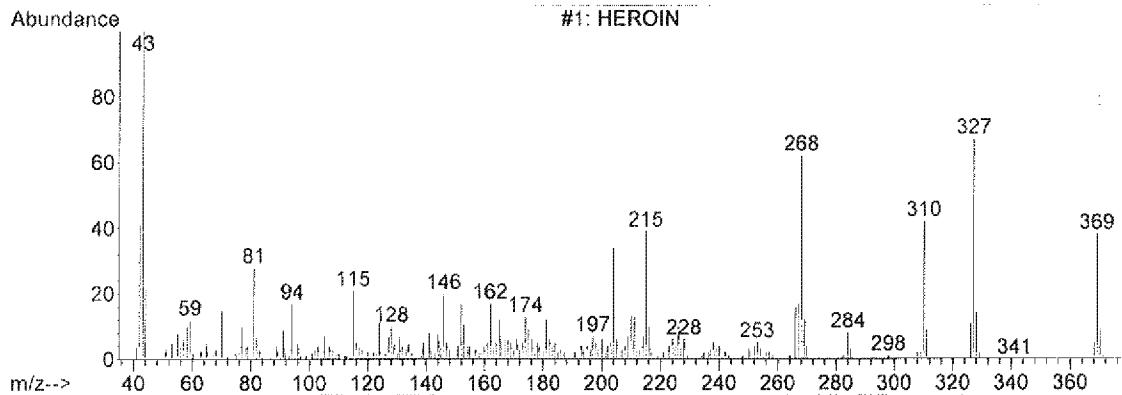
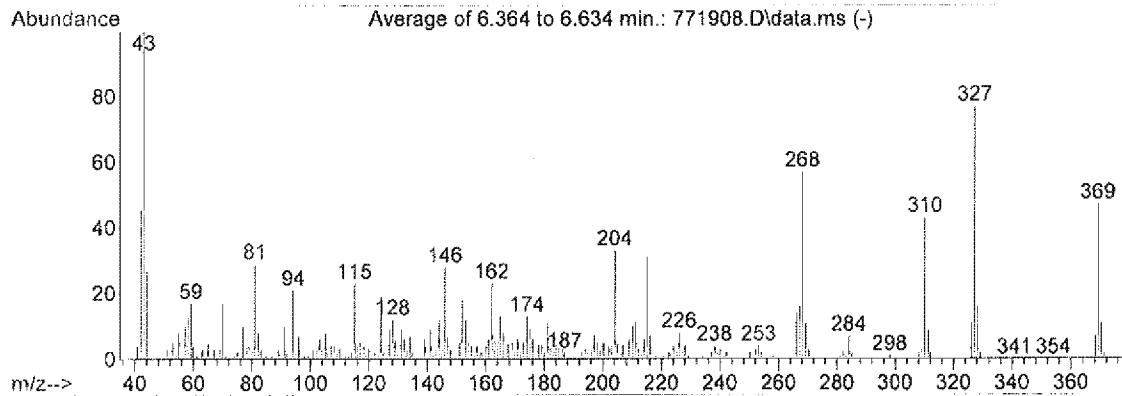


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771908.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:16  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 8  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

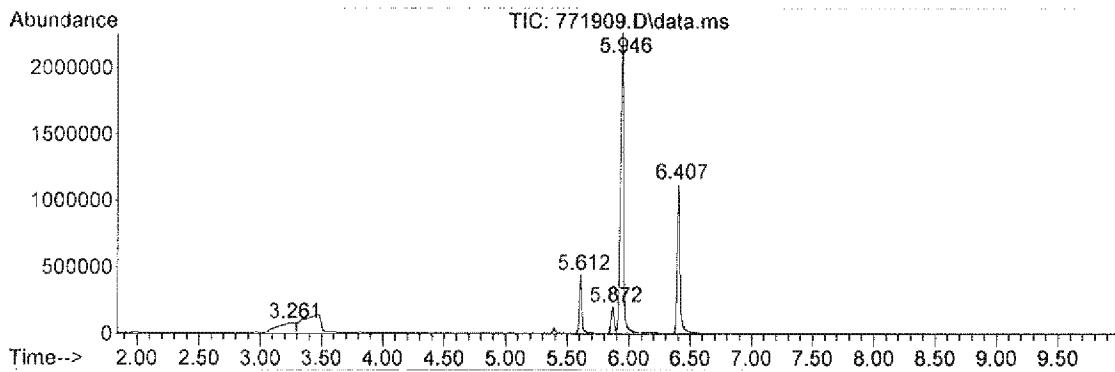
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



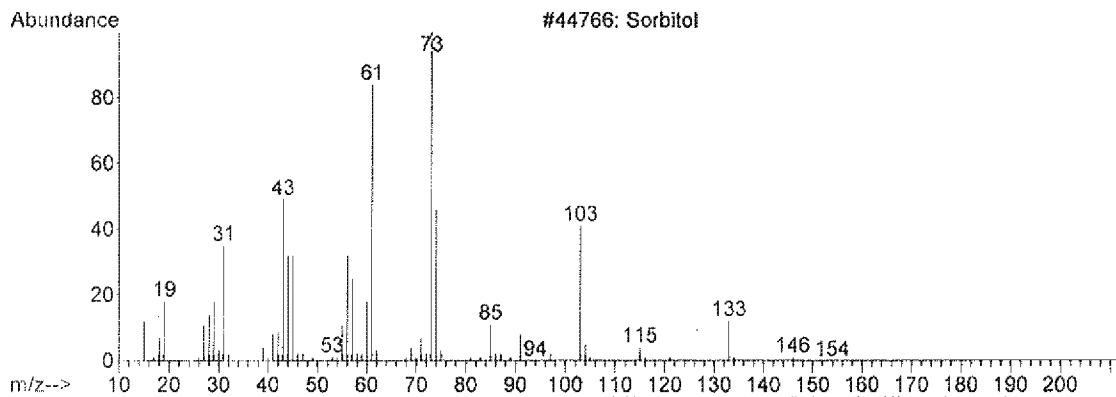
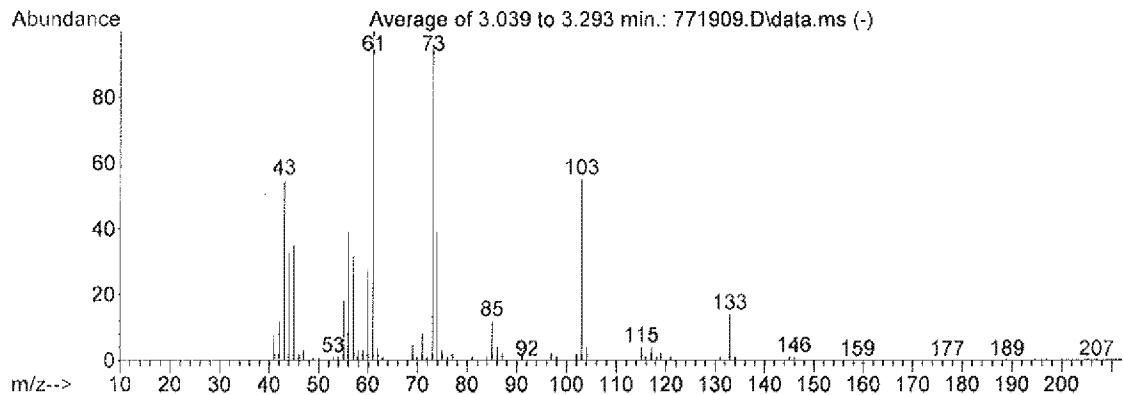
Ret. Time	Area	Area %	Ratio %
3.261	724023	9.61	18.01
5.613	634422	8.42	15.78
5.872	325760	4.32	8.10
5.946	4020959	53.36	100.00
6.407	1830160	24.29	45.52

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.26	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		D-Mannitol	000069-65-8	78
		Sorbitol	000050-70-4	64

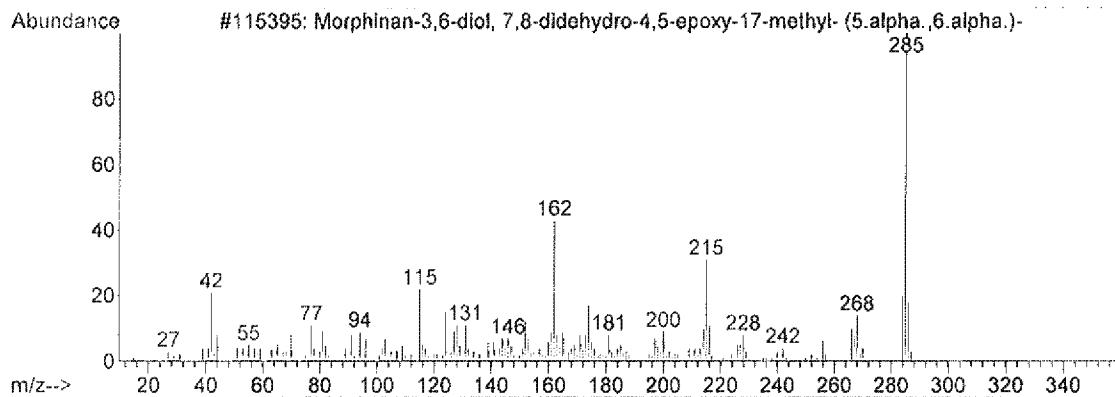
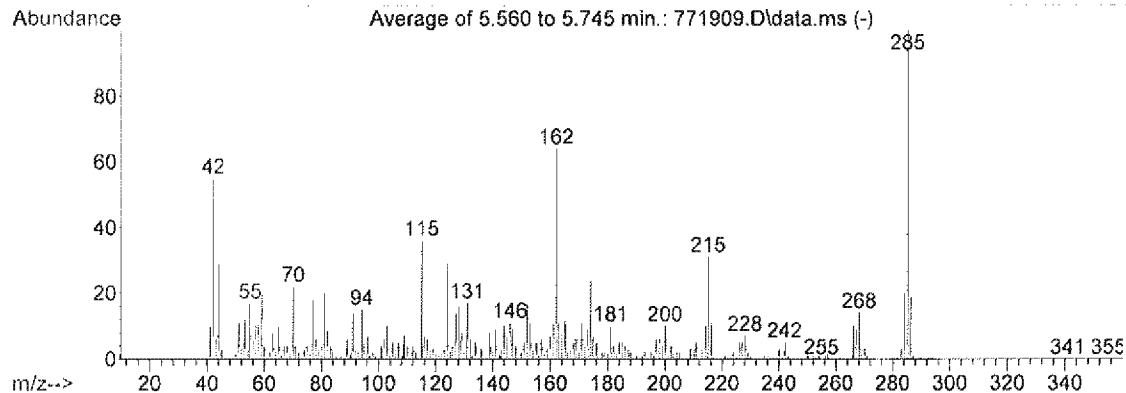


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

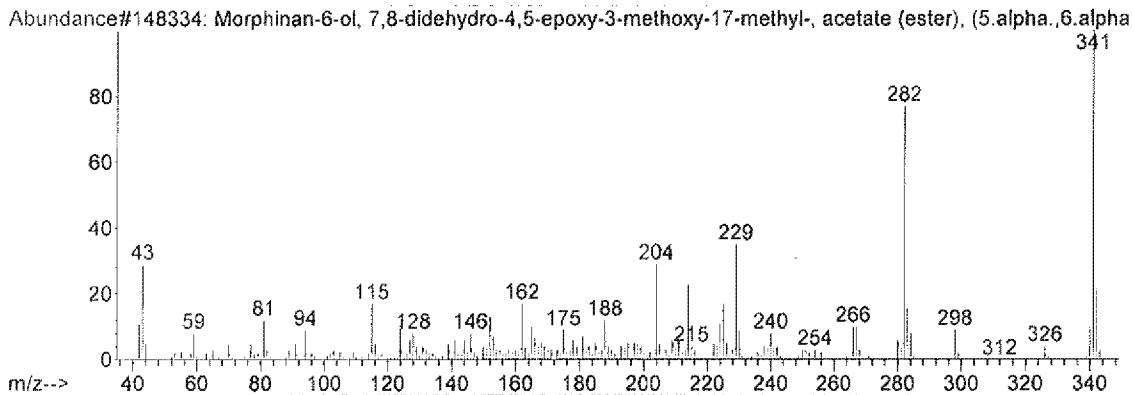
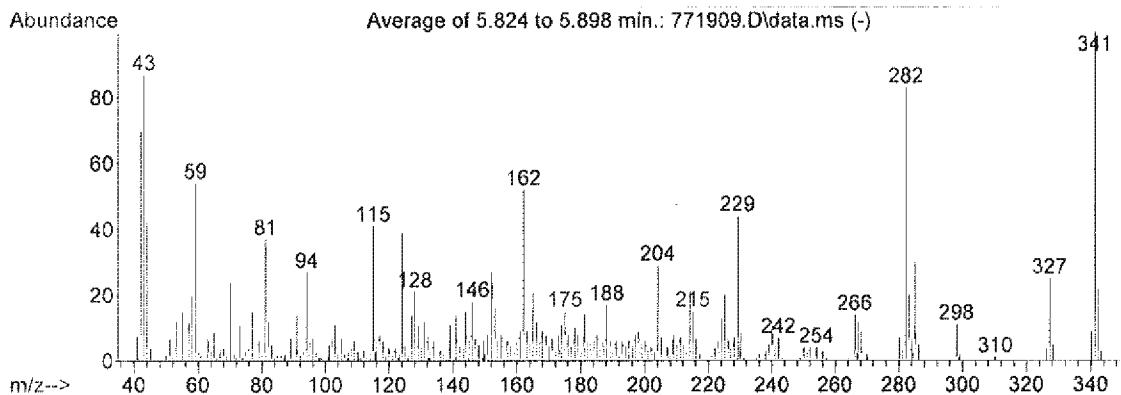


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

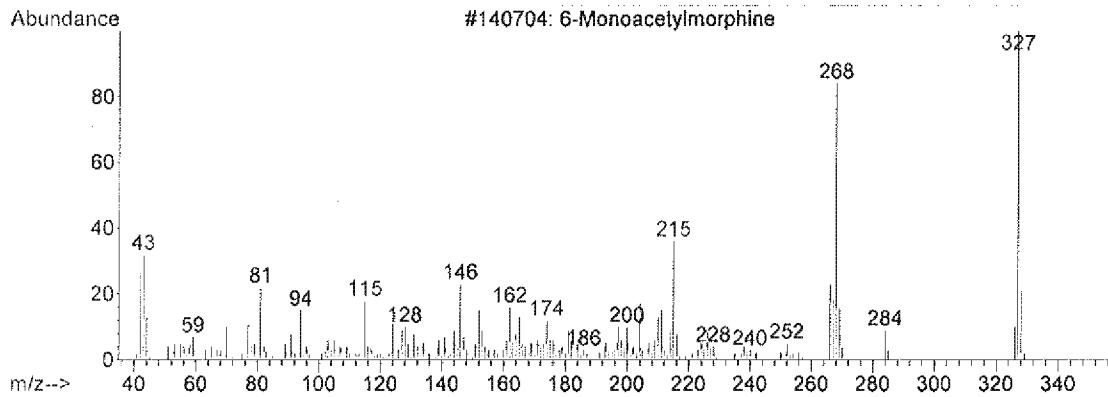
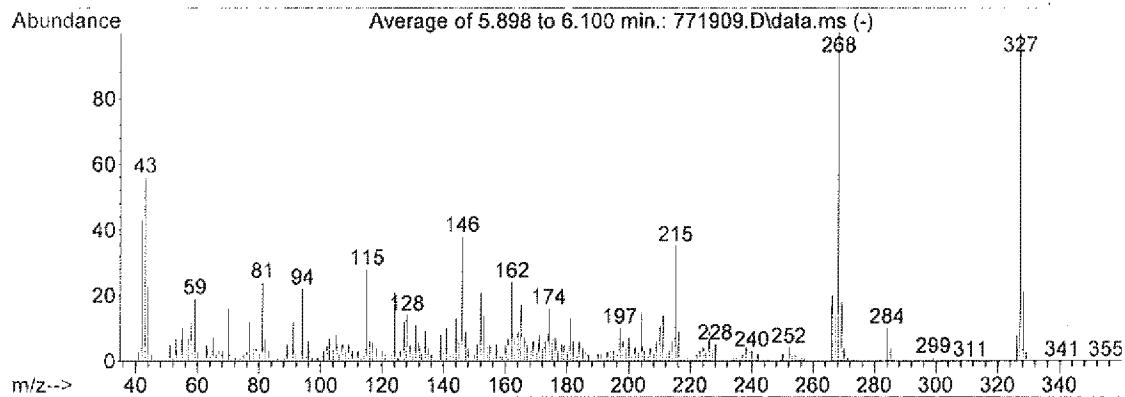


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

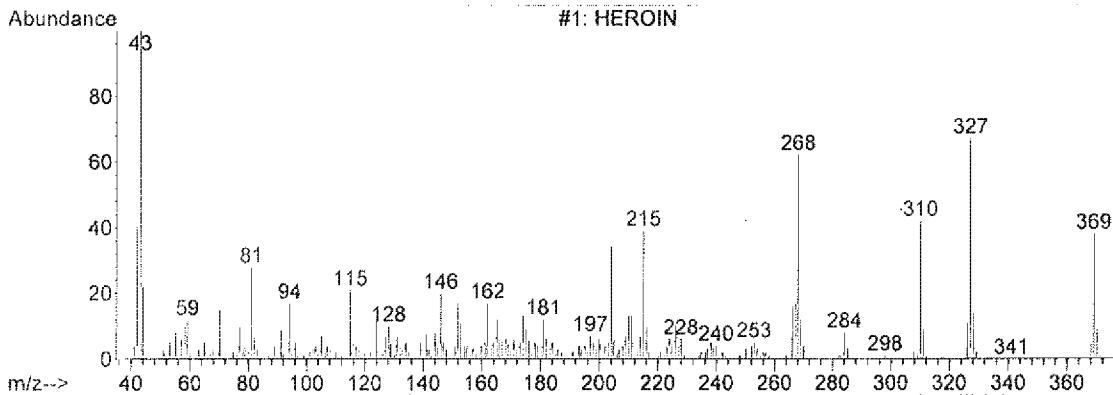
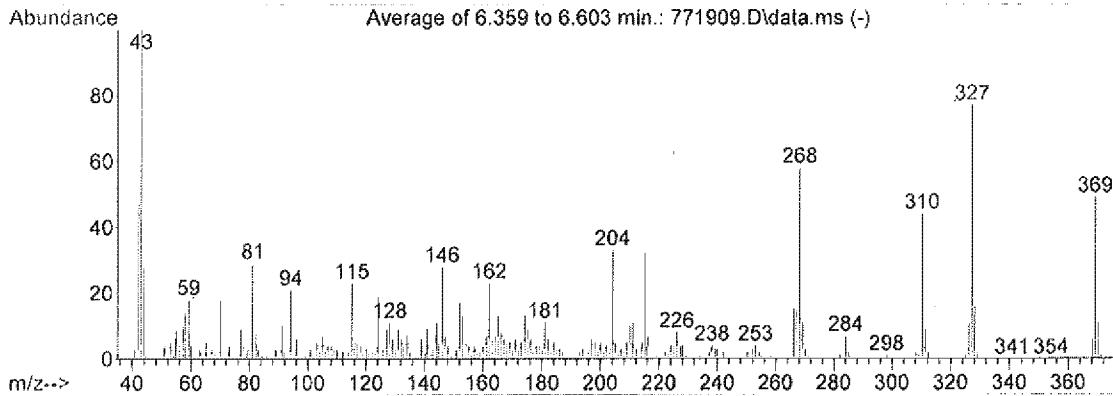


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771909.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:28  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 9  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

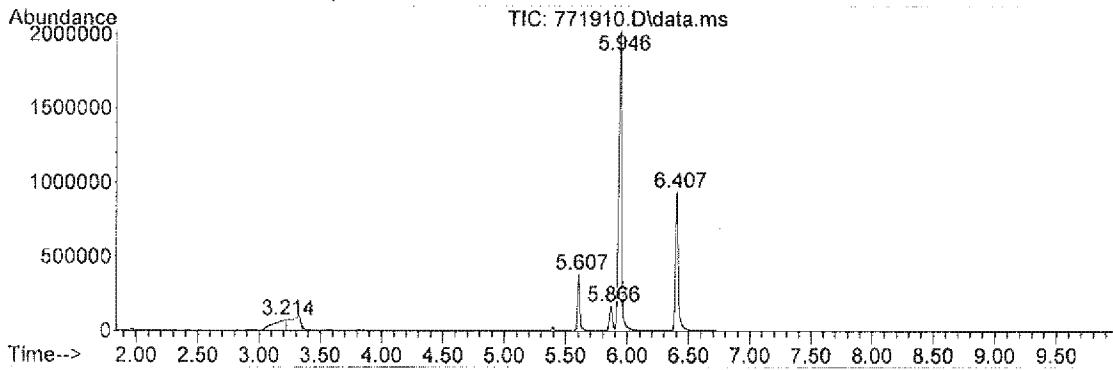
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



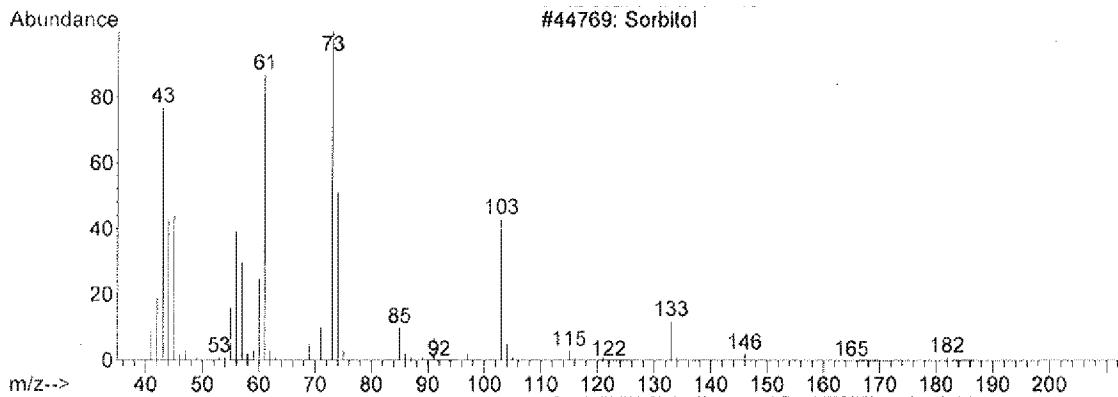
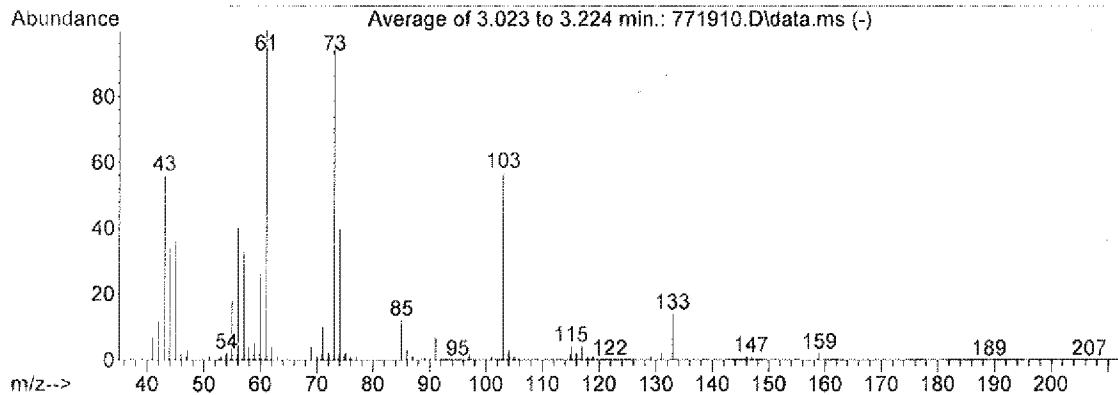
Ret. Time	Area	Area %	Ratio %
3.214	497068	7.96	14.52
5.607	526511	8.43	15.38
5.866	266490	4.27	7.79
5.946	3422257	54.80	100.00
6.407	1532774	24.54	44.79

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	80
		Sorbitol	000050-70-4	72
		Sorbitol	000050-70-4	72

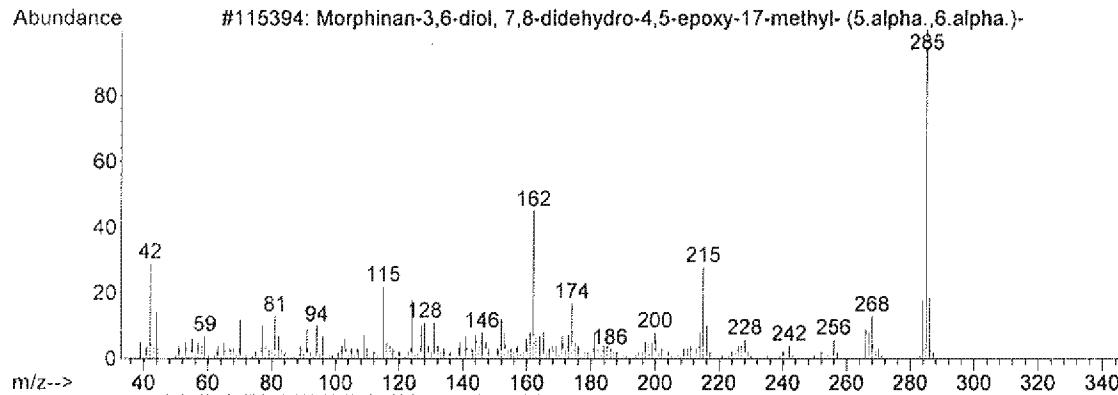
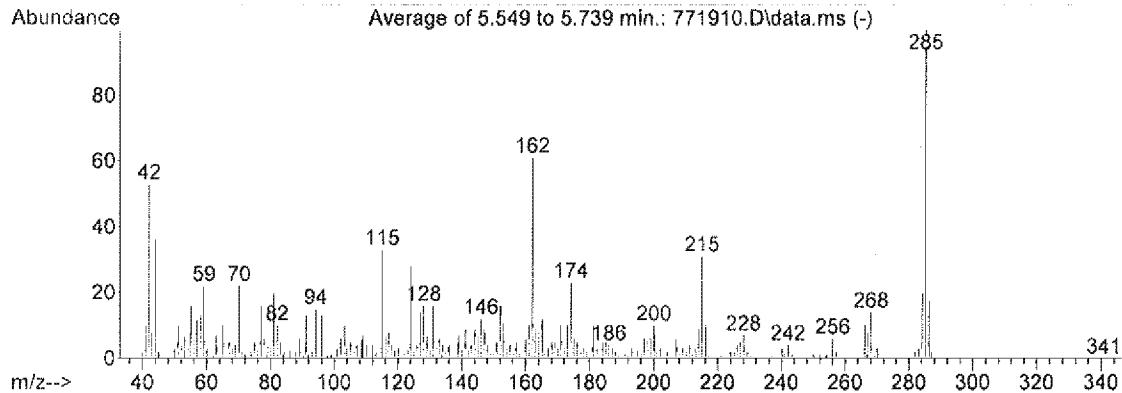


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

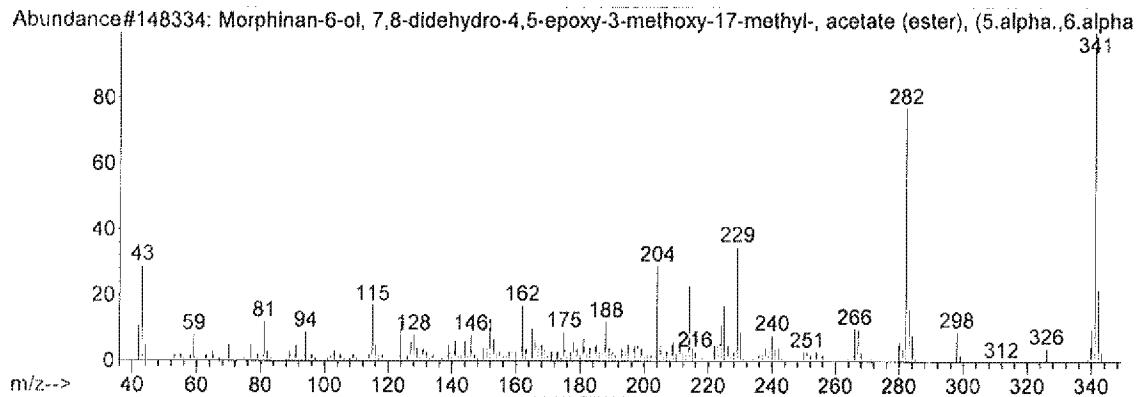
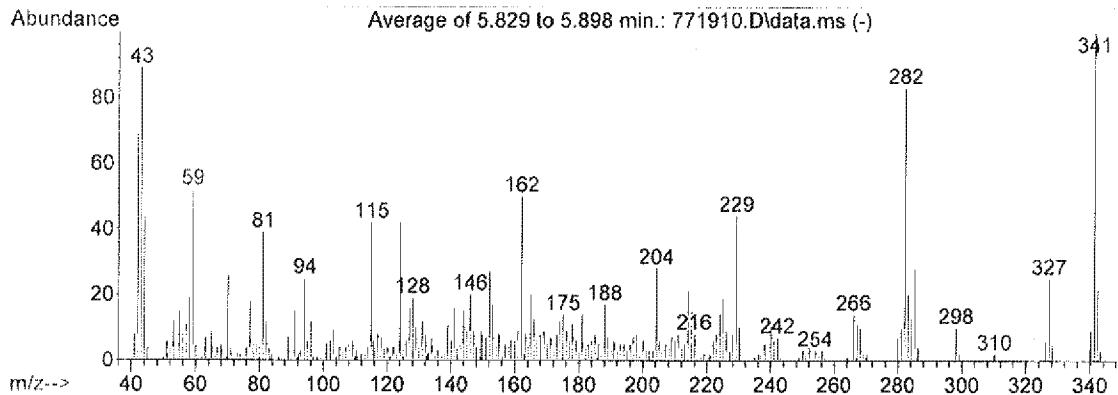


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : XXXXXXXXXX  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Acetylcodein	1000153-00-2	95

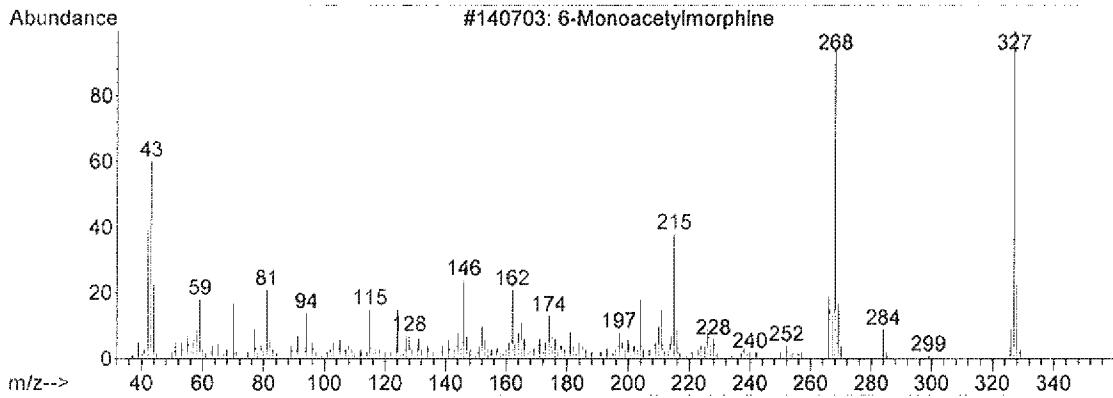
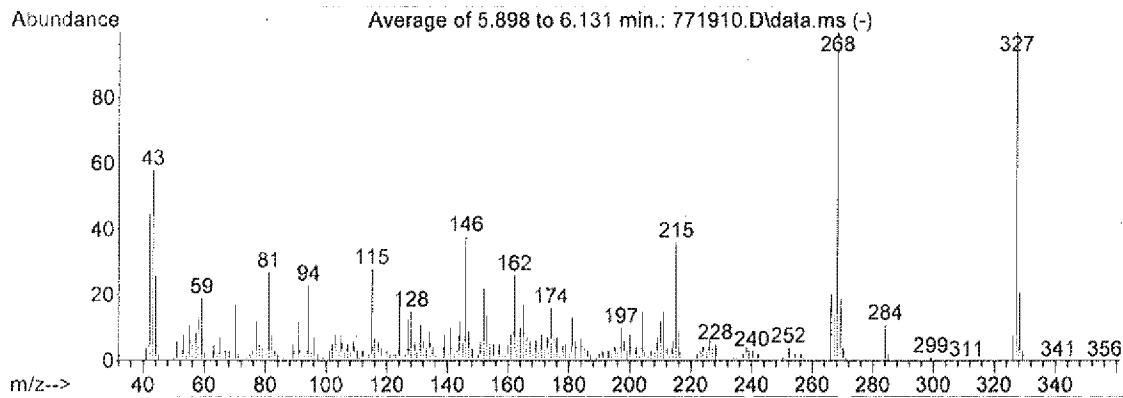


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

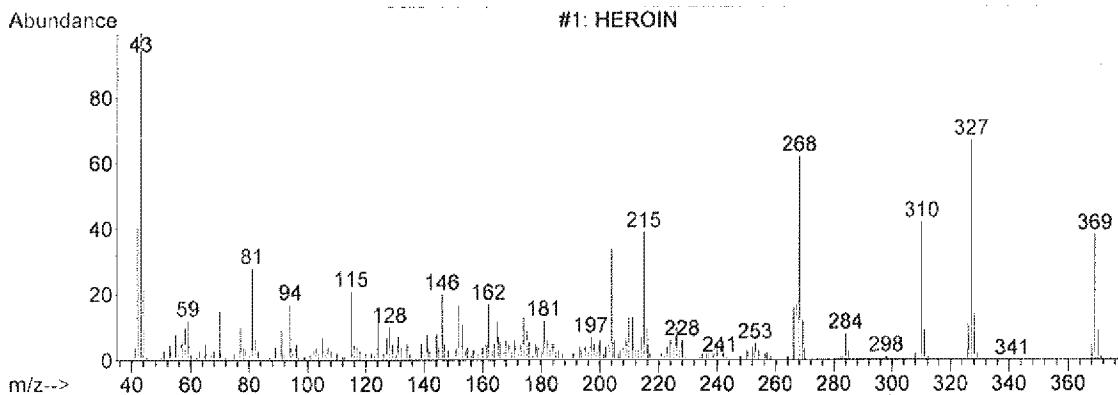
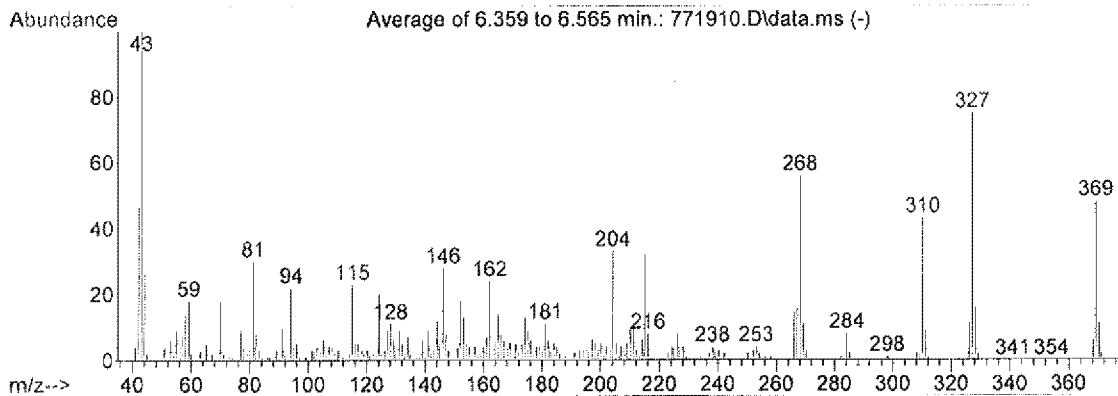


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771910.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:41  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 10  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

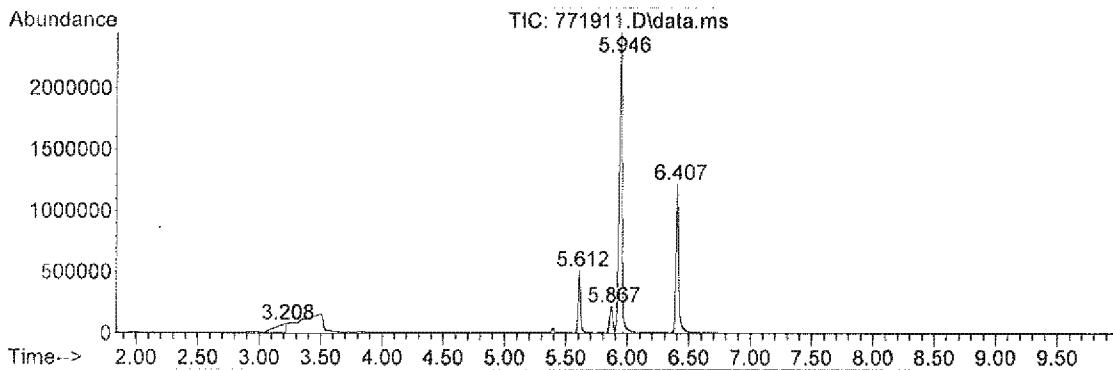
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.208	404964	5.32	9.62
5.612	713169	9.37	16.94
5.867	351629	4.62	8.35
5.946	4210108	55.33	100.00
6.407	1928628	25.35	45.81

# Area Percent / Library Search Report

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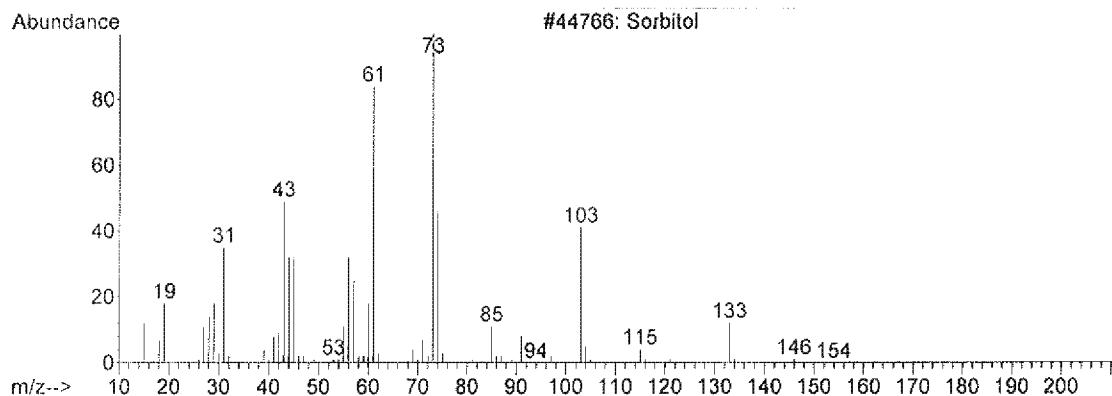
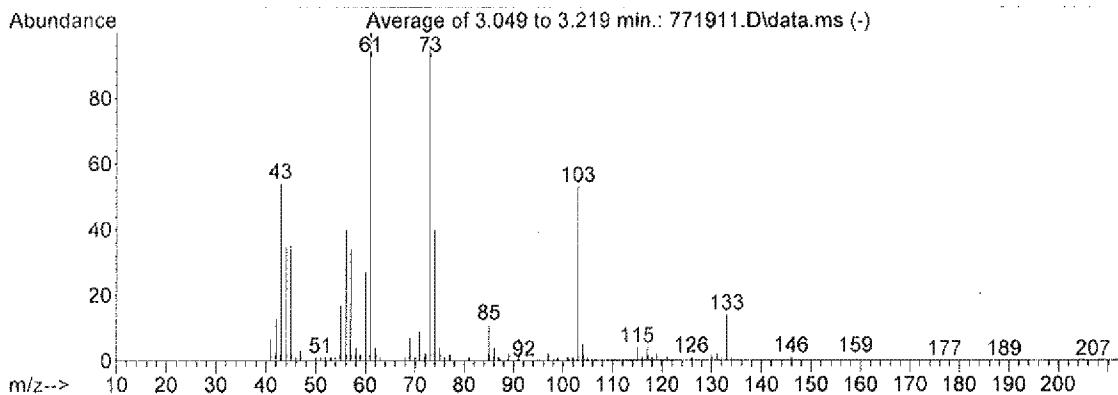
**Information from Data File:**

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

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Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.21	C:\Database\NIST05a.L		
		Sorbitol	000050-70-4	87
		Sorbitol	000050-70-4	86
		D-Mannitol	000069-65-8	83

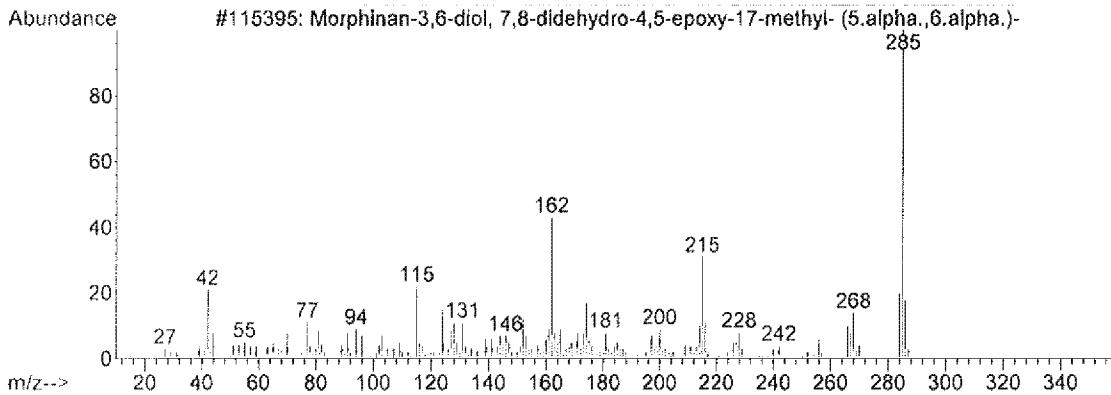
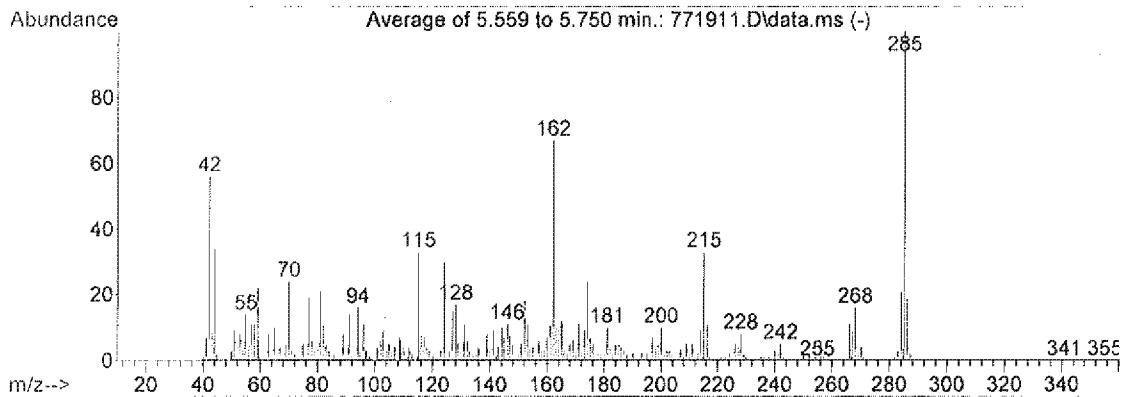


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	5.61	C:\Database\NIST05a.L		
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99
		Morphinan-3,6-diol, 7,8-didehydro-4	000057-27-2	99

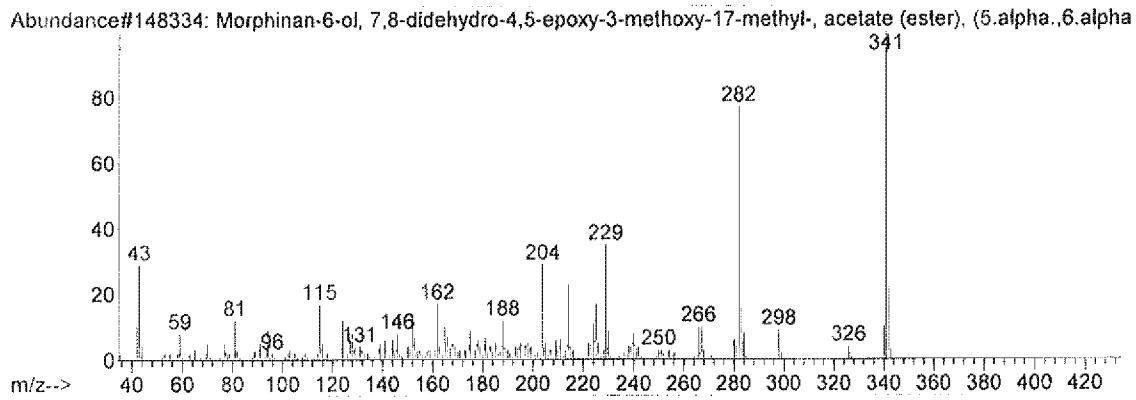
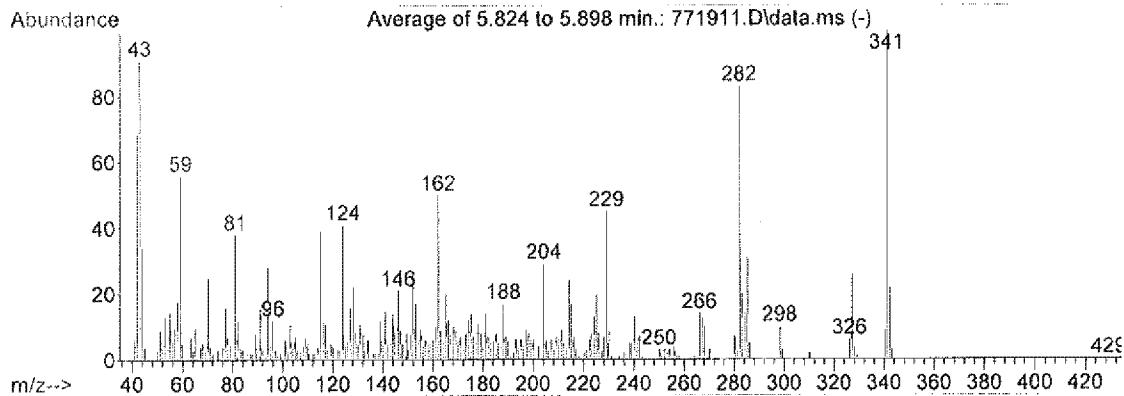


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	5.87	C:\Database\NIST05a.L		
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	99
		Morphinan-6-ol, 7,8-didehydro-4,5-e	006703-27-1	96
		Acetylcodein	1000153-00-2	95

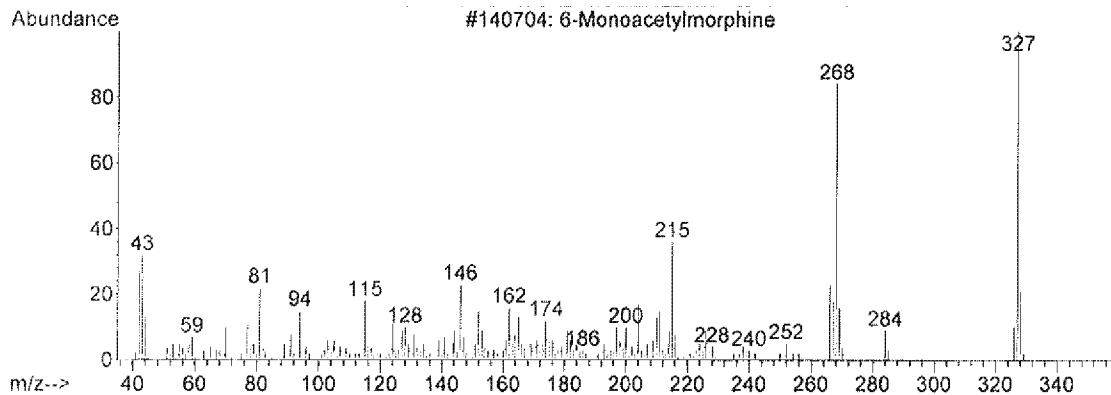
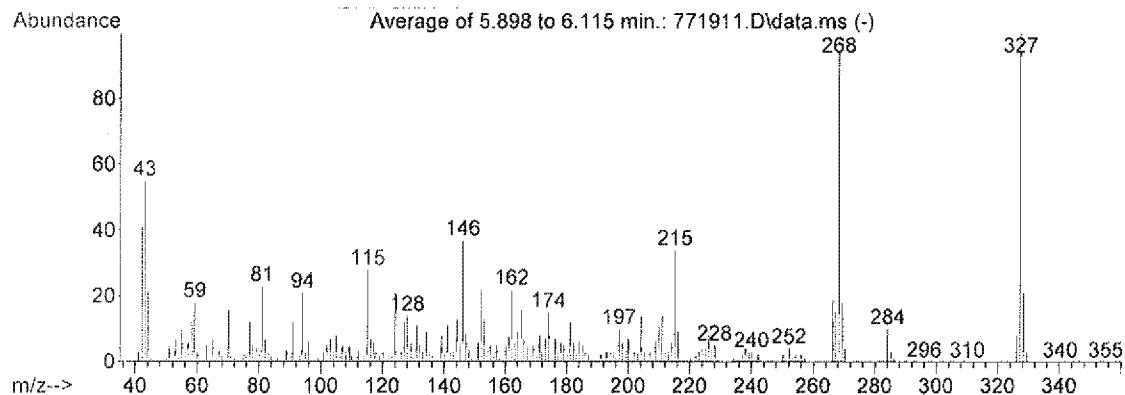


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	5.95	C:\Database\NIST05a.L		
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99
		6-Monoacetylmorphine	002784-73-8	99

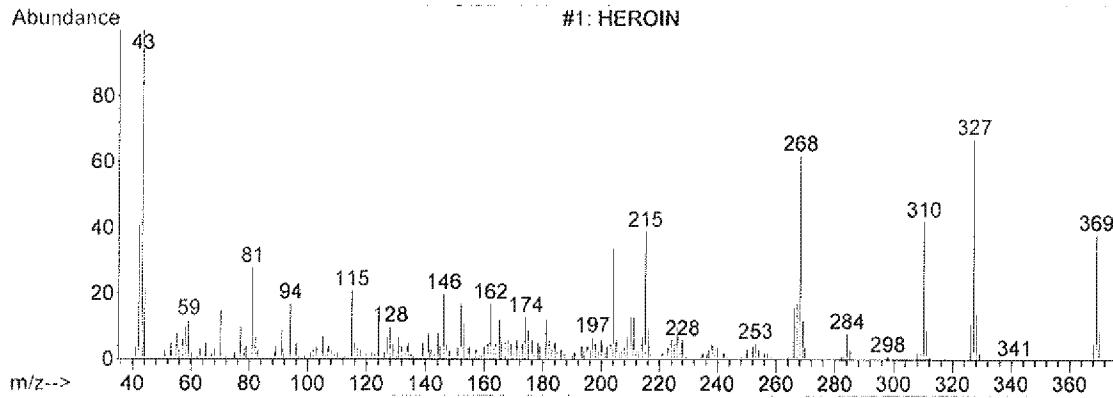
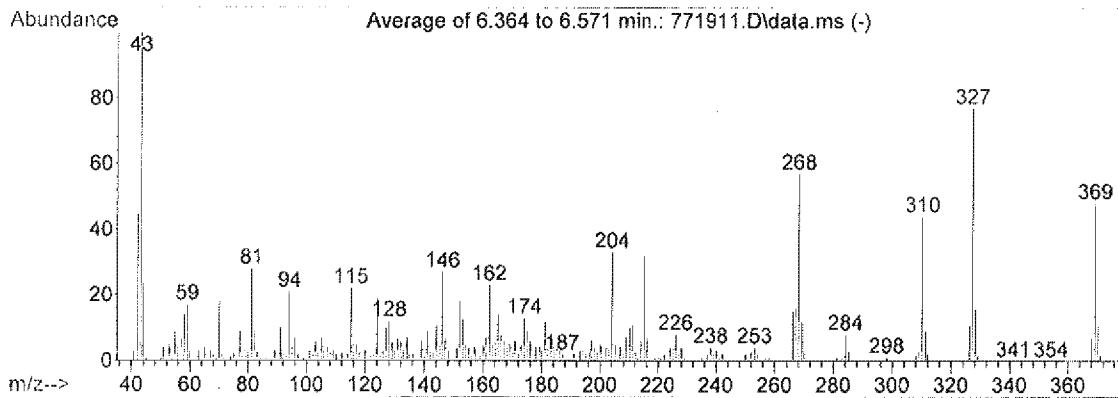


## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771911.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 10:54  
Sample Name : XXXXXXXXXX  
Submitted by : ASD  
Vial Number : 11  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

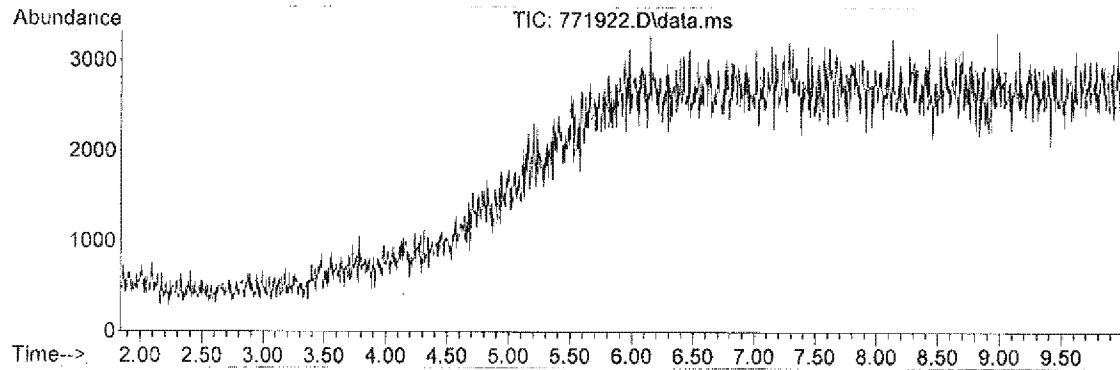
Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
5	6.41	C:\Database\SLI.L		
		HEROIN	000561-27-3	99
		JWH-073	208987-48-8	2



## Information from Data File:

File Name : F:\Qi-2011\System7\02\_15\_11\771922.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:12  
Sample Name : BLANK  
Submitted by :  
Vial Number : 1  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



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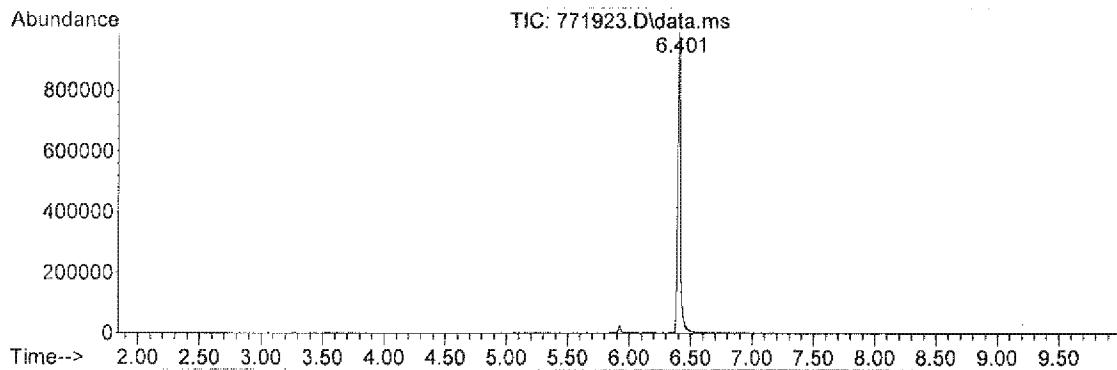
Ret. Time	Area	Area %	Ratio %
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\*\*\*NO INTEGRATED PEAKS\*\*\*

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771923.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 23  
AcquisitionMeth: DRUGS.M  
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.401	1598308	100.00	100.00

## Information from Data File:

File Name : F:\Q1-2011\System7\02\_15\_11\771923.D  
Operator : KAC  
Date Acquired : 15 Feb 2011 13:25  
Sample Name : HEROIN STD  
Submitted by :  
Vial Number : 23  
AcquisitionMeth: DRUGS.M  
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80  
C:\Database\NIST05a.L Minimum Quality: 80  
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	6.40	C:\Database\SLI.L HEROIN	000561-27-3	99

